



GameOver





SMARTLIVING

Anti-intrusion control panels and security systems

INSTALLATION AND PROGRAMMING MANUAL





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- damage arising from improper maintenance or negligence
- damage caused by fire, flood, wind or lightning
- vandalism
- fair wear and tear

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Installation of this Product must be carried out by qualified persons appointed by INIM Electronics. Installation of this Product must be carried out in accordance with Our instructions in the product manual.

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Hereby INIM Electronics s.r.l. declares that the SmartLiving series of intrusion-control panels, the Air2 series of devices and the SmartLinkAdv product are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/CE.

Moreover, INIM Electronics s.r.l. also declares that all other devices mentioned in this manual are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/CE.

The full declarations of conformity can be found at URL: www.inim.biz/certifications

The devices described in this manual, in accordance with the settings selected during the installation phase and the following illustrated guidelines are, alternatively, in compliance with the Italian Normative CEI 79-2:1998+Ab:2000 performance level 2 or European Normative EN 50131-3:2009 (in reference to control and indicating equipment - intrusion control panels), EN 50131-6:2008 (in reference to power supplies) security grade 2 or 3 and EN 50136-2 (in reference to transceivers in supervised places).

In support of research, development, installation, testing, commissioning and maintenance of intrusion alarm systems installed in buildings please refer to the following normative documents:

CEI 79-3 and CEI CLC/TS 50131-7.

Depending on the state in which you install the components described herein, you may be required to satisfy local regulatory documents.

When installing INIM systems, it is up to the installer company to install systems equipped with Normative CEI 79-2 compliant devices rather than devices compliant with European Normatives series EN50131 and EN50136 within and not over the DOWs summarized in amendment CEI 79-2;V1:2010.

Warranty

Limited warranty

Copyright

European Directive compliance

State-of-the-art installations (DM 37/08)



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ABOUT THIS MANUAL

DCMIINE0SLIVINGE

MANUAL CODE

6.30

VERSION

Terminology

0-1

The main supervisory unit or any constituent parts of the SmartLiving intrusion control system.

CONTROL PANEL, SYSTEM, DEVICE

Directions as seen by the operator when directly in front of the mounted device.

LEFT, RIGHT, BEHIND, ABOVE, BELOW

A device which sends voice calls or digital reports to programmed contact numbers in the event of an alarm.

DIALLER

Persons whose training, expertise and knowledge of the products and laws regarding security systems, are able to create, in accordance with the requirements of the purchaser, the most suitable solution for the protected premises.

QUALIFIED PERSONNEL

Click on a specific item on the interface (drop-down menu, options box, graphic object, etc.).

SELECT

Click on a video button, or push a key on the control-panel keypad.

PRESS

Graphic conventions

0-2

Following are the graphic conventions used in this manual.

Conventions	Example	Description
Text in italics	Refer to paragraph 0-2 Graphic conventions	Directs you to the title of a chapter, section, paragraph, table or figure in this manual or other published reference.
<text></text>	# <accountcode></accountcode>	Editable field
[Uppercase letter] or [num- ber]	[A] or [1]	Reference relating to a part of the system or video object.
BUTTON	0 _ , F1 Fn , OK	Keypad keys

The "Note" sections contain important information relating to the text.

Note

The "Attention" prompts indicate that total or partial disregard of the procedure could damage the device or its peripherals.

ATTENTION!

The "DANGER" warnings indicate that total or partial disregard of the procedure could injure the operator or persons in the vicinity.

DANGER!



Similarly marked dialogue boxes contain recommendations and/or guidelines which the manufacturer wishes to call attention to.



About this manual



Chapter 1

GENERAL INFORMATION

1-1 Manufacturer's details

INIM ELECTRONICS s.r.l. Manufacturer:

Production plant: Centobuchi, via Dei Lavoratori 10

63076, Monteprandone (AP), Italy

+39 0735 705007 Tel.: +39 0735 704912 Fax: e-mail: info@inim.biz Web: www.inim.biz

The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work on INIM Electronics brand devices only.

Description of the product and various models 1-2

Description: Intrusion control panel

Models: SmartLiving 505

SmartLiving 515

SmartLiving 1050, SmartLiving 1050/G3, SmartLiving 1050, SmartLiving 1050/G3, SmartLiving 10100L, SmartLiving10100L/G3

Standards applied: EN 50131-1:2006+A1:2009,

EN 50131-3:2009, EN 50131-6:2008, EN 50136-1:2012, EN 50136-2:2013, EN 50130-4:2011, EN 50130-5:2011, CEI 79-2:1998+Ab:2000

CEB T014:2013-04 (ed.3)

Certifying body: IMQ S.p.A.

Safety grade: 2 or 3 (in accordance with configurations, refer to table 2-2)

ATS Categories: up to SP6 or DP4 (in accordance with configurations

see table 2-11 and 2-12)

Certified items and conformity

The SmartLiving control panels and devices described in this manual are IMQ certified -Sistemi di sicurezza (IMQ S.p.A.) and conform to the above mentioned standards, when duly programmed, as described in Chapter 8 - Compliance with rules in force.

The control panel enclosure in capable of housing the following certified items:

- INIM Electronics switching-power supply
- Motherboard (IN082 or IN088)
- SmartLogos30M voice board (accessory item)
- FLEX5/U input/output expansion board (accessory item)
- AUXREL32 relay board (accessory item)
- SmartLAN/SI and SmartLAN/G LAN interface boards (accessory items)
- GSM Nexus and Nexus/G communicators (optional)





- IB100/RU BUS isolator board (accessory item)
- ProbeTH thermal-probe kit for battery-charge optimization (accessory item)
- TamperNO tamper-protection kit (accessory item)
- Backup battery, 12V @ 7, 9 or 17Ah (depending on the control panel)
- Motherboard (IN082 and IN088) integrated Type B notification apparatus

The compliance of the control panel is also guaranteed when connected to the following certified devices:

- FLEX5/P input/output expansion boards
- Joy/MAX, Joy/GR, Aria/HG, Concept/G, nCode/G, Alien/G, Alien/S keypads
- nBy/S outdoor-mount proximity readers
- nBy/X universal-mount proximity readers
- IB100/RP BUS isolator
- · Self-powered IB100/A BUS isolator
- nCard access-control card for proximity readers
- Tag for nKey or nBoss proximity readers
- Self-powered sounderflashers for outdoor installation: Ivy, Ivy-F, Ivy-M, Ivy-FM, Ivy-B, Ivy-BF, Ivy-BM, Ivy-BFM
- Wireless devices AIR2, AIR2-BS200 (transceiver), Air2-IR100 (PIR detector), Air2-MC100 (magnetic contact)
- SmartLinkAdv/GP, SmartLinkAdv/G, SmartLinkAdv/P communicators

Patents Pending 1-4

The SmartLiving series of control panels employs the following INIM-patented technologies.

- **Input/Output Terminals**: each terminal on-board the control panel, keypads and expansion boards can be configured as either an input or output zone.
- **nBy/X proximity reader**: this reader has been especially designed to flush-mount to all models of electrical light-switch backboxes.
- Learn zone balancing: this option allows the control panel to save the balancing values of all the system zones automatically, thus eliminating the task of typing them in.

Manuals 1-5

Installation and 1-5-1 programming manual (this manual)

This manual (not included in the package) can be purchased from your retailer. You (the installer) should read carefully through it in order to become familiar with all the components and operating procedures of the SmartLiving system.

In order to provide adequate protection, the installer must adhere to all the manufacturer's guidelines relating to the active and passive security devices of this system.

Installation and 1-5-2 programming guide

The guide, supplied with each control panel, provides all the instructions and illustrations necessary for fast installation and programming of the SmartLiving system. It provides step by step descriptions of the procedures required for the system wiring, the various connections and first powerup. It also provides a table for the peripheral addressing process and a quick guide indicating default parameters and values and how to program/change them directly from the keypad.

User's manual 1-5-3

The installer should read carefully through the user's manual (supplied with each control panel). Once the system has been installed, the user manual must given to the users for consultation. The user must fully understand all the system functions and the configuration settings.

It is the installer's responsibility to inform the system users that, regardless of its capabilities, an intrusion alarm system is not a substitute for the necessary precautions building occupants must take to prevent intrusion.

General information 7

1-6



Operator Qualifications

Installer 1-6-1

The installer is the person (or group of persons) who sets up and programs the entire security system in accordance with the purchaser's requirements and in respect of the safety laws in force. As the only individual in contact with system users, it is the installer's responsibility to instruct them on how to use the security system properly.

Under normal circumstances, the installer is not allowed to arm/disarm the system without previous authorization from the user. All the system partitions must be disarmed before accessing the parameter programming phase.

The access code of the installer is a level 3 access code.

User 1-6-2

The users are the occupants of the building where this intrusion control panel is installed. Only authorized users can access and operate the system.

Thanks to the extreme flexibility of the system, the most common operations can be carried out without authorization. This operating method must be expressly requested by the main user, as it considerably lowers the security level of the system and may cause false alarms, accidental arm/disarm operations, etc.

A system access code can be associated with each user. The programming process allows you to define the code hierarchy:

- User
- Manager
- Master

The system codes can carry out, in accordance with their assigned level in the system hierarchy (the "User" being the lowest level), the following operations on all other codes that are inferior hierarchically:

- •• enable/disable
- change PIN
- change some of the programming parameters

If the system programming complies with security grade 3 of EN 50131, some partition arming or delete memory operations, requested from a keypad, may be authorized by the entry of a level 3 code (installer code) as well as by a user code.

Access Levels 1-7

The normative defines the following system-access levels, regardless of system-access limitations:

- Level 1 access by any person (e.g. passer-by)
- Level 2 user access
- Level 3 installer or maintenance operator access (authorized by user level 2)
- Level 4 manufacturer access

Conventions – Glossary 1-8

In order to understand the terminology used in this manual and improve your knowledge of this system and its operating procedures, read carefully through the Technical Terminology – Glossary (refer to *Appendix A, Technical terminology and Glossary*).

The appendix contains the definitions of technical terms commonly used in the field of security, therefore, relevant to the SmartLiving system.

8 General information



Chapter 2

2-1

THE CONTROL PANEL AND PERIPHERALS

SmartLiving intrusion control panels

Package contents 2-1-1

Inside the package you will find:

- Metal box containing the mother board, power-supply (transformer or switching) and a wired LIVPWR100 board (IN140 for SmartLiving/G3 models)
- User's Manual
- · Quick Installation Guide
- Plastic bag:

Table 2-1: Contents of the bag

SmartLiving Control panel models	505 515	1050 1050L 10100L	1050/G3 1050L/G3 10100L/G3
3k9 Ohm 1/4W resistance	10	2	0
Resistance 6k8 Ohm 1/4W	10	2	0
Varistors 150Vrms		2	
Backup-battery wire		1	
Earth connection ring terminal	/ 1		
Thermal probe for optimization of the battery charging process, based on heat transfer	/ 1		
Screws to secure the frontplate of the metal enclosure		4	
"INIM Electronics security-protected area" sticker	Security system protecte area	ir	CTRONICS

Items not included in the package:

Dislodgement tamper protection, backup battery, SmartLeague programming software CD, Installer's manual. These devices are accessory items which must be purchased separately.

The SmartLeague programming software and the Installer's manual can be downloaded free of charge from: $\underline{www.inim.biz}$

The control panel data labels are affixed to the outside of the control panel enclosure.



Control panel descriptions 2-1-2

Table 2-2: Control panels - electrical and mechanical features

SmartLiving Cont	trol panel models	505	515	1050	1050/G3	1050L	1050L/G3	10100L	10100L/G3	
	power supply		230V ~ -15% +10% 50/60Hz							
Voltage	nominal output		13.8V 							
	output range				from 9 to	13.8V 				
	maximum	0.	.2A		0	5A		1	.1A	
Current draw	of control panel motherboard	45mA @	22.5V~			65mA	@ 13.8V			
	of LIVPWR100 board	/			35mA @ 13.8V	/	35mA @ 13.8V	/	35mA @ 13.8V	
SD low	voltage	/		11V	/	11V	/	11V		
Fault voltage or	n power outputs	/		9.8V	/	9.8V	/	9.8V		
Threshold for pro- tection	from deep dis- charge	/			9.5V	/	9.5V	/	9.5V	
tection	from overload		/		15.4V	/	15.4V	/	15.4V	
Maximum power-su	ipply voltage ripple	35	0mV	550mV	350mV	550mV	350mV	20	0mV	
PS t	type	Type A								
Enclosure Dimensions (W x H x D)			21.5 x 30	.5 x 8.5cm	37.5 x 51 x 8.5cm					
Weight (without battery)		2.5 Kg 2.2			2 Kg 5.3 Kg					
6 '1 1	EN50131-3			•	3	3				
Security grade	EN50131-6	2	2	2	3	2	3	2	3	

Table 2-3: SD type and current distribution EN 50131-1 compliant

SmartLiving Conf	trol panel models	505	515	1050	1050/G3	10	50L	1050)L/G3	10100L	10100L/G3
SD type (backup bat- tery)	rated voltage				12	2V					
	maximum capacity	7Ah	7Ah	7Ah	7Ah	7Ah	17Ah	7Ah	17Ah	17Ah	17Ah
	maximum recharge time		24h (80% charged)								
	maximum inter- nal resistance (R _{i max})	/			1.50Ω	,	/	1.5	50Ω	2.0	50Ω
Maximum deliv-	total	1.2A		3A	3.7A	3	A	3.	7A	6.	2A
erable current @ 12V	for external loads	530mA		500mA	130mA	500 mA	1.35 A	130 mA	450 mA	1.35A	450mA
Max. current	mother board	900)mA		1.35A						
available on each +AUX ter- minal	LIVPWR100 board	/			2A /		/	2	A	/	2A
Maximum deliverable current to open-collector outputs		150)mA				500	mA	•		

Table 2-4: T 014 compliant SD type and current distribution

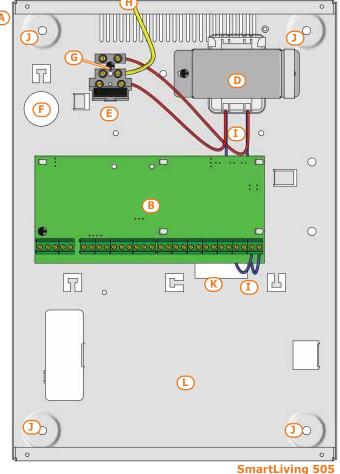
lable 2-4. I 014 compliant 3D type and current distribution									
SmartLiving Con	trol panel models	505	515	1050	1050/G3	1050L	1050L/G3	10100L	10100L/G3
SD type (backup bat- tery)	rated voltage		12V						
	maximum capacity	9Ah	9Ah	9Ah	9Ah	17Ah	17Ah	17Ah	17Ah
	maximum recharge time		24h (80% charged)						
	maximum inter- nal resistance (R _{i max})	/			1.50Ω	/	1.50Ω	0.50Ω	
Maximum deliv-	total	1.2A 3A			3.7A	3A	3.7A	6.	2A
erable current @ 12V	for external loads	330mA		310mA	275mA	635mA	600mA	635mA	600mA
Max. current	mother board	900)mA		1.35A				
available on each +AUX ter- minal	LIVPWR100 board	/			2A	/	2A	/	2A
Maximum deliverable current to open-collector outputs		150mA			500mA				



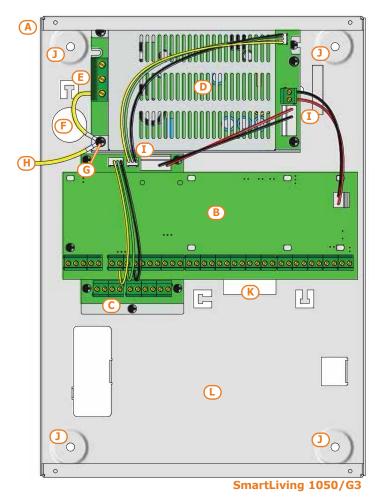
The following table shows the maximum number of devices supported by the various control panel models.

Table 2-5: Control panel - Main Features

SmartLi	505	515	1050 1050/G3 1050L 1050L/G3	10100L 10100L/G3		
	Total terminals	5	15	50	100	
	total		5	10)	
Terminals on panel	configurable as inputs		5	10)	
reminals on panel	configurable as rollerblind/shock			2		
	configurable as outputs		0	5		
	Total zones	10	30	100	200	
0	total			3		
Outputs on control- panel motherboard	relay			1		
paner memorial	open-collector output			2		
	Partitions		5	10	15	
(JOY, nCoo	Keypads (JOY, nCode/G, Concept/G, Alien, Aria)		5		15	
	Voice memo slots	5		10	15	
	FLEX5 expansions	5	10	20	40	
	nBy Readers	10		20 30		
Sounde	rflashers (Ivy-B, Hedera)	10				
Air	2-BS200 Transceivers	10		20	30	
Digital keys	and wireless command devices	50 100		150		
Poss	sible key combinations	4294967296				
	IB100 isolators			15		
	Nexus dialer			1		
Codes			30	50 100		
Scenarios				30		
Timers		10		20		
	Recordable Events	500		1000		
Pı	ogrammable events		10	30	50	







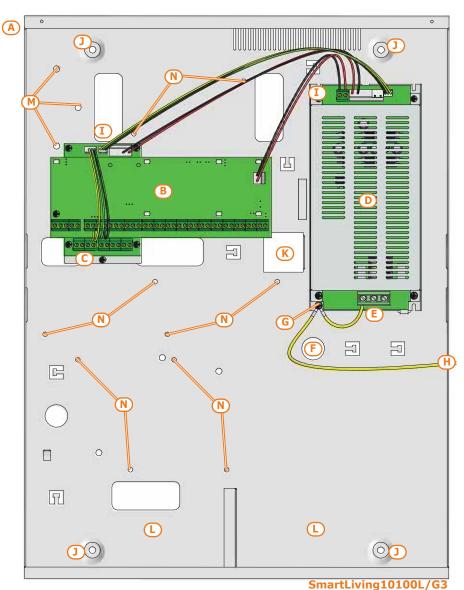


Table 2-6: Control panels - description of parts 1050 1050L 10100L 1050/G3 1050L/G3 10100L/G3 505 515 Models SLiving Α Metal enclosure Mother board В LIVPWR100 board C D Power adapter (Transformer) Switching power supply Ε Connection terminal board to mains 230V~ - 50/60 Hz F Mains cable entry G Ground connection screws Н Frontplate earth wire Wires between transformer and control panel Ι Wires between switching-power and control panel Anchor-screw locations for the metal backbox J Dislodgement-tamper microswitch location K L Compartment for backup battery Anchor-screw locations for AUXREL32 board М N FLEX5/U expansion board locations

Table 2-7: Power supplies - description of parts

	The state of the s						
Models SLiving	1050 1050L	1050/G3 1050L/G3	10100L	10100L/G3			
A	$ \begin{array}{c c} \textbf{AC Input} \\ \hline L & N & \textcircled{+} \end{array} $ Mains input terminal board $ \begin{array}{c c} \textbf{AC Input} \\ \hline 230V - 50/60 \ \text{Hz} \\ \hline \textbf{N} & \textbf{L} \end{array} $						
В		Mother board connector					
С	Thermal probe connector						
D	/	Battery connector	/	Battery connector			

Power supply SmartLiving1050/1050L, 1050/G3, 1050L/G3



Switching power supply **SmartLiving 10100L, 10100L/G3**





Table 2-8: Mother board - description of parts

Models	505	1050	1050/G3				
Models	515	1050L 10100L	1050L/G3 10100L/G3				
Α	/	Connector for power-supply ca and cont	ble between power-supply unit rol panel				
В	Backup-batte	ery connector	Do not use				
С	Thermal probe connector	,	1				
D	Thermal probe (enable/dis- able) jumper	,	1				
E	Connector	s for the SmartLAN power-supp	ly jumper				
F	Local I-BUS	S connector	Do not use				
G		Maintenance jumper connectors					
Н	Sma	artLogos30M voice-board conne	ctor				
I	Contr	rol panel to PC serial cable conn	ector				
J	Dislodgement-t	amper microswitch connector (a	accessory item)				
K	Open-panel ta	mper microswitch connector (ad	ccessory item)				
L		Open-panel tamper microswitch					
М		Terminal board					
N	Blue and yellow activity LEDs						
0		Firmware version label					
Р		Ground connection screws					

Table 2-9: Mother board - terminal board

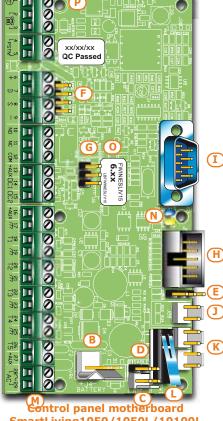
n. icon/ider				Model			
	fier	505	515	1050	1050L	10100L	
1	=		[Earth connectio	n		
2-3			Internal t	elephone-line o	connection		
4-5	PSTN		Land-l	ine connection	(PSTN)		
6-7-8-9	+ D S -		I	-BUS connectio	ns		
10-11-12	NO NC COM		Voltage-free	contacts of the	relay output		
13	+AUX +AUX1		12V A	Ancillary power	supply		
14-15	OC1 OC2		Ор	en-collector out	tput		
16	+AUX +AUX1		12V A	Ancillary power	supply		
17-19-21- 23-25	т		Power supp	ly negative (ea	rth or GND)		
18-20-22- 24-26	T1-T2-T3- T4-T5	Con	trol panel inpu	t terminals: T1	, T2, T3, T4 and	d T5	
27	+AUX +AUX2		12V A	Ancillary power	supply		
28-29	AC	Power supply the tran	y input from sformer				
28-30-32- 34-36	T6-T7-T8- T9-T10			Terminals: To	6, T7, T8, T9 ar control panel	nd T10 of the	
29-31-33- 35	т			Power supp	ly negative (ea	rth or GND)	
37	+AUX3			12V A	ncillary power s	supply	

Table 2-10: LIVPWR100 board - terminal board

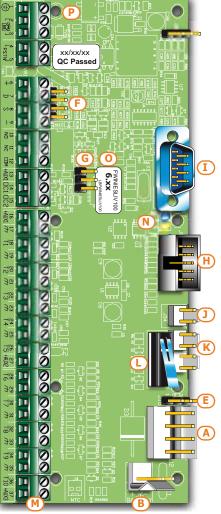
n.	icon/identi- fier	description				
1-2-3-4	+ D S -	I-BUS connections				
5	+AUX1					
7	+AUX2	12V Ancillary power supply				
9	+AUX3					
6-8-10	т	Power supply negative (earth or GND)				

Use of the +AUX terminals on the mother board annuls standard 50131 - 3 compliance.

SmartLiving 505/515 control-panel motherboard



SmartLiving1050/1050L/10100L 1050/G3, 1050L/G3, 10100L/G3



Note



ATS Categories 2-1-3

SmartLiving control panels used alone or together with any of the following described optional devices constitutes an SPT (Supervised Premises Transceiver) which can be used to create an ATS (Alarm transmission System) as defined in EN 50136-1 and EN 50136-2 standards.

The following table shows the maximum ATS categories achievable with the SPT configurations and main communication channel in use, together with the respective parameters.

Table 2-11: ATS categories based on configurations

SPT Configurations					ATS Categories		
SmartLiving intrusion control panels	Nexus	Nexus/G	SmartLAN/G	SmartLAN/ SI	SPT primary network interface	Single Path (SP)	Dual Path (DP)
X					PSTN	2	/
Х	X				PSTN or GSM	2	2
Х		Х			GSM/GPRS	6	2
Х			Х		Internet	6	2
Х				х	internet	6	2
Х		Х	х		Internet or GSM/GPRS	6	4
Х		Х		х	Tilleriler of GSM/GPRS	6	4

Table 2-12: ATS Parameters

ATS Categories		Transmission time			Replacement	Information	Operating
		Classification	Maximum values	Time relation	security	security	mode
Single Path	2	D2 (60s)	M2 (120s)	T2 (25h)	S0	10	Pass-through
	6	D4 (10s)	M4 (20s)	T6 (20s)	S2	I3	
Dual Path	2	D3 (20s)	M3 (60s)	T3a (30min)	S0	IO	Pass-tillough
Duai Patii	4	D4 (10s)	M4 (20s)	T5 (90s)	S2	I3	

Events log memory 2-1-4

The control panel events are saved to a non-volatile semiconductor-memory which retains data without the need of power.

The electrical characteristics of semiconductor devices diminish over time. However, a minimum period of 40 years data retention is guaranteed.

I-BUS interconnections 2-1-5

SmartLiving control panels are equipped with a 4-wire BUS for peripheral interconnections (2 power-supply wire and 2 data exchange wires, refer to *paragraph 3-2-1 The I-BUS line wiring*).

The intellectual property rights regarding the electrical, structural and protocol features of the BUS are the sole property of INIM Electronics s.r.l.

The I-BUS is not a RS485 differential BUS.

Environmental Conditions 2-2

SmartLiving control panels must not be installed outdoors and are suitable for operating under the following conditions:

• Temperature: from -10° to +40°C

• **Maximum humidity**: 75% (without condensation)

Environmental class: II

The Joy/GR, Joy/MAX, Aria/HG, nCode/G, Concept/G, Alien/S, Alien/G, IB100, FLEX5, Nexus and nBy/X peripheral devices are for indoor installation only and operate best under the following environmental conditions:

• **Temperature**: from -10° to +40°C

Maximum humidity: 75% (without condensation)

Environmental class:II



The nBy/S reader is suitable for outdoor installation and operates best under the following conditions:

• **Temperature**: from -25° to +70°C

• Maximum humidity: 93% (without condensation; for 30 days per year granting

that the relative humidity can touch points of 95% without

being subject to condensation)

Protection grade: IPEnvironmental class:IV

Peripherals 2-3

The control panel I-BUS accommodates the following peripherals:

- JOY/GR, JOY/MAX, Aria/HG, nCode/G, Concept/G, Alien/G e Alien/S keypads
- Readers (nBy/S and nBy/X)
- Expansions (Flex5)
- Transceiver (Air2-BS200)
- Sounderflashers (Ivy-B)
- Isolators (IB100)
- GSM dialer (Nexus)

Joy/GR and Joy/MAX keypads 2-3-1

- · Backlit graphic display
- Icon Easy4U interface
- 4 indicator LEDs
- Signal buzzer
- Tamper and opening protection
- Mounts to "503" outlets
- 2 Input/Output terminals

Joy/MAX only:

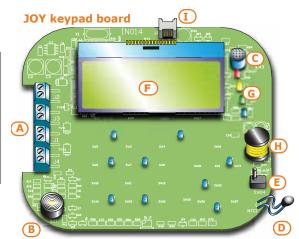
- Thermometer and chronothermostat function
- Microphone and loudspeaker for voice functions
- · Built-in proximity reader

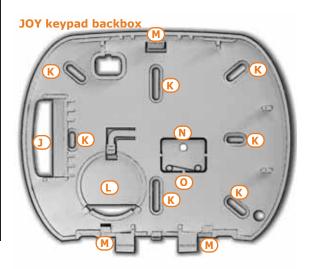
Tabella 2-13: Joy - electrical and mechanical features

Joy keypads models	JOY/GR JOY/MAX		
Voltage	from 9 to 16V		
Typical current draw 70mA 90m		90mA	
Terminals configurable as OC outputs	2		
Maximum current draw per terminal	150mA		
Dimensions (W x H x D)	142 x 116	x 20 mm	
Weight 160g		180g	

Tabella 2-14: Joy - description of parts

Α	Terminal board
В	Buzzer
С	Microphone (Joy/MAX only)
D	Temperature sensor (Joy/MAX only)
E	Open-tamper microswitch
F	Backlit graphic display
G	Signaling LEDs
Н	Antenna (Joy/MAX only)
I	Speaker-wire connector (Joy/MAX only)
J	Wire entry
K	Wall-mount screw locations
L	Speaker housing
М	Board supports
N	Dislodgement-tamper microswitch screw location
0	Dislodgement-tamper microswitch spring







Keypad terminals:

Tabella 2-15: Joy - terminal board

n.	icon/identifier	description
1	+	Terminal "+" for the I-BUS connection
2	D	Terminal " D " for the I-BUS connection
3	S	Terminal " S " for the I-BUS connection
4	-	Terminal "-" for the I-BUS connection
5	T1	Screw terminal of keypad terminal T1
6	Щ	Negative power terminal (Negative or GND)
7	T2	Screw terminal of keypad terminal T2
8	4	Negative power terminal (Negative or GND)

O A09 O A10 O A11 O A12 O A01 O A02 O A03 O A13 O A05

ı

3 0

5I

Terminals T1 and T2 can be configured as:

- Input (also as Rollerblind or Shock)
- Output
- Double zone
- Supervised Output

The keypad package contains a sticker (to be located under the keypad flip) which can be used to note down the keypad address or label, its location, the partitions it controls and any phone-contact numbers.

2-3-2 Aria/HG keypad

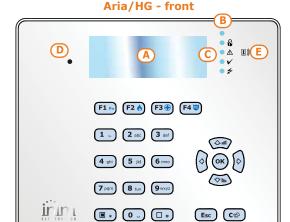
- Backlit graphic display
- Icon Easy4U interface
- Brightness sensor
- 4 indicator LEDs
- Signal buzzer
- Inertial tamper protection
- Mounts to "503" outlets
- Thermometer and chronothermostat function
- 2 Input/Output terminals
- Microphone and loudspeaker for voice functions
- Built-in proximity reader

Tabella 2-16: Aria/HG - electrical and mechanical features

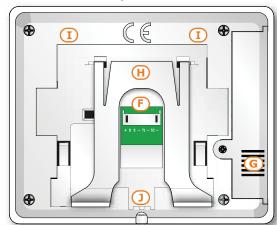
Voltage	from 9 to 16V===
Typical current draw	90mA
Terminals configurable as OC outputs	2
Maximum current draw per terminal	150mA
Dimensions (W x H x D)	140 x 115 x 27mm
Weight	228g

Tabella 2-17: Aria/HG - description of parts

Α	Display
В	Brightness sensor
С	LED
D	Microphone
E	Proximity reader
F	Cable connector
G	Speaker
Н	Counter support
I	Wall bracket support
J	Screw location
K	Backlocking grips
L	Mounting screw location
М	Cable entry



Aria/HG - back

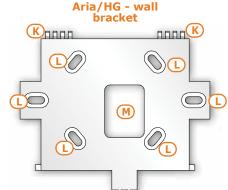




Connection of the keypad is achieved through the connector on the back and must done using the 8 wire cable which comes with the keypad.

Tabella 2-18: Aria/HG - connection wires

Wire colour	terminal	description
Red	Red + Cable/Terminal "+" of the I-BUS and RS485 BUS	
Yellow	D	Cable/Terminal " D " for the I-BUS connection
Green	Green S Cable/Terminal "S" for the I-BUS connection	
Black	Black - Cable/Terminal "-" of the I-BUS and RS485 BUS	
Blue	Blue T1 Wire/terminal of keypad terminal T1	
Black	Black - Negative power wire/terminal (Negative or GND)	
Grey	Grey T2 Wire/terminal of keypad terminal T2	
Black	Black - Negative power wire/terminal (Negative or GND)	



Terminals T1 and T2 can be configured as:

- Input (also as Rollerblind or Shock)
- Output
- · Double zone
- Supervised Output

Aria/HG - 8 wire cable



nCode/G and Concept/G Keypads 2-3-3

- · Backlit graphic display
- Icon Easy4U interface
- 4 indicator LEDs
- Signal buzzer
- Tamper protection
- Mounts to "503" outlets
- 1 Input/Output terminal

Tabella 2-19: nCode/G, Concept/G - electrical and mechanical features

Keypad models nCode/G Concept,		Concept/G	
Voltage	from 9 to 16V		
Typical current draw	70mA	80mA	
Terminals configurable as OC outputs	=	L	
Maximum current draw per terminal	150mA		
Dimensions (W x H x D)	87 x 129 x 18 mm		
Weight 135g 155g		155g	
Keys	23 (in soft rubber)	23 (touch)	

Tabella 2-20: nCode/G and Concept/G - description of parts

Α	Backlit graphic display
В	Signaling LEDs
С	Cable connector
D	Tamper microswitch
E	Screw location
F	Screw location
G	Terminal board guide
Н	Buzzer

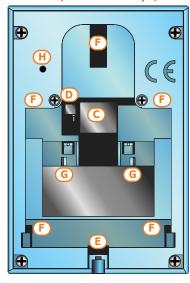
nCode/G keypad



Concept/G keypad



Retro keypads nCode/G and Concept/G



nCode/G and Concept/G keypads are equipped with a buzzer and a T1 terminal which can be configured as:

- Input (also as Rollerblind or Shock)
- Output
- Double zone

Mounting bracket



You can connect Code/G and Concept/G keypads using the connector on the back of the device, using either the 6 wire cable (included), or the KB100 terminal board included in the deep-bracket kit (accessory kit).









Table 2-21: Connection cables - KB100 terminal board

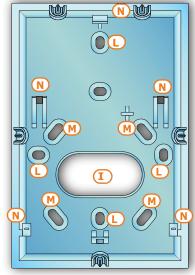
n.	Wire colour	KB100 ter- minal board	description
1	Red	+	Wire/Terminal "+" for the I-BUS connection
2	Yellow	D	Wire/Terminal " D " for the I-BUS connection
3	Green	S	Wire/Terminal "S" for the I-BUS connection
4	Black	-	Wire/Terminal "-" for the I-BUS connection
5	Blue	T1	Wire/terminal of keypad terminal T1
6	Black	ф	Negative power wire/terminal (Negative or GND)

Table 2-22: Brackets - description of parts

I	Wire entry
L	Wall-mount screw locations
М	Flush-mount screw locations
N	Backlocking grips

(N)

KB100 - deep mounting



Alien/S - front

2-3-4

keypads

Alien/G and Alien/S touch screen

- Touch-screen
- Protection against removal and dislodgement tamper
- Input/Output terminals (Alien/G only)
- Compatible with all SmartLiving 5.0 and higher models
- Thermometer and chronothermostat function
- Microphone and loudspeaker for voice functions
- Built-in proximity reader
- System interface with I-BUS and RS485 BUS
- **USB** Interface
- SD card interface
- Photoframe function with images on SD card
- Background customization with images on SD Card
- Skin selection
- Black or white

Table 2-23: Alien - description of parts

•	25.6 = =5.7 2 2pub			
Α	Display			
В	Microphone			
С	Proximity reader			
D	Touch pen holder			
Е	Closure hooks			
F	Backlocking grips			
G	Securing screw			
Н	Cable entry			



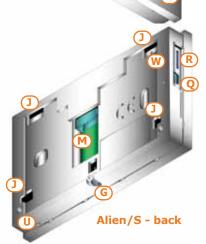


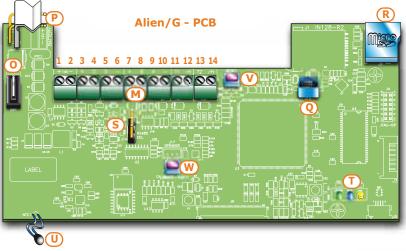


Table 2-23: Alien - description of parts

	able 2 251 /men accompanion of parts			
I	Screw locations			
J	Back-locking grip locations			
K	Flush-mount screw locations for "503" box			
L	PCB			
М	Terminal board/Connector for wires			
N	Dislodgement-tamper microswitch			
0	Open-tamper microswitch			
Р	Battery connector			
Q	Mini USB connector			
R	Slot for micro-SD card			
s	Selection jumper connectors for EOL resistance on RS485			
Т	LED activity			
U	Temperature sensor			
٧	Reset button			
W	Forced calibration button			

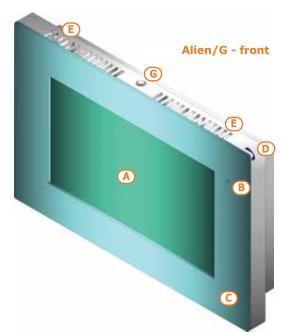
Table 2-24: Alien/G - terminal board

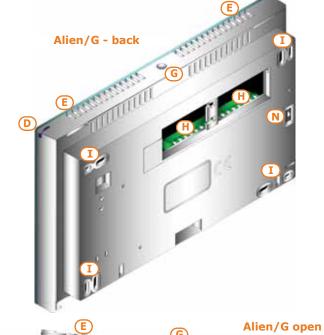
n.	icon/ identifier	description	
1	+ 14V	Positive power terminal	
2	- 14V	Negative power terminal	
3	+	Terminal "+" for the I-BUS connection	
4	D	Terminal " D " for the I-BUS connection	
5	S	Terminal " S " for the I-BUS connection	
6	-	Terminal "-" for the I-BUS connection	
7	+	Terminal "+" for the RS485 BUS connection	
8	В	Terminal " B " for the RS485 BUS connection	
9	Α	Terminal "A" for the RS485 BUS connection	
10	-	Terminal "-" for the RS485 BUS connection	
11	T1	Screw terminal of keypad terminal T1	
13	T2	Screw terminal of keypad terminal T2	
12 - 14	ф	Negative power terminal (Negative or GND)	

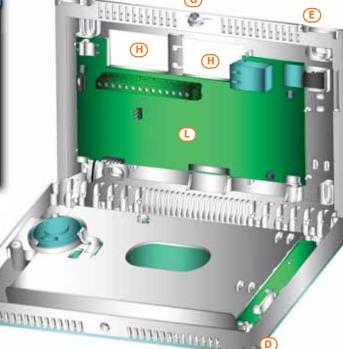


Terminals T1 and T2 can be configured as:

- Input (also as Rollerblind or Shock)
- Output
- Double zone
- Supervised Output









Connection of the Alien/S keypad is achieved through the connector on the back and must done using the 8 wire cable which comes with the keypad.

Table 2-25: Alien/S - Connection wires

Wire colour	Alien/S ter- minal board	description		
Red	+	Cable/Terminal "+" of the I-BUS and RS485 BUS		
Yellow	D	Cable/Terminal " D " for the I-BUS connection		
Green	S	Cable/Terminal "S" for the I-BUS connection		
Black	-	Cable/Terminal "-" of the I-BUS and RS485 BUS		
Grey	В	Terminal "B" for the RS485 BUS connection		
Blue	Α	Terminal "A" for the RS485 BUS connection		
White	REOL	Wire/Terminals to establish the EOL on the RS485		

Table 2-26: Alien - electrical and mechanical features

Keypad models	Alien/S	Alien/G		
Voltage	from 9 to 16V 			
Typical current draw	150mA	400mA		
Terminals configurable as OC outputs	/	2		
Maximum current draw per terminal	150mA			
Input/Output terminals	/ 2			
Display size	4.3	7		
Number of display colours	65000			
Display resolution	Solution 480x272 800x480			
SD card capacity	16 GBy	te max.		
Box for flush-mount installation	Bracket for mounting to stan- dard "503" boxes	Flush-mount box supplied (214x129x54 mm)		
Dimensions (W x H x D)	131x81x17mm	219x143x34mm If mounted to flush-mount box: 219x143x17		
Weight	160g	520g		

Readers - nBy/S and nBy/X

Table 2-27: nBy - electrical and mechanical features

Reader models	nBy/S	nBy/X	
Voltage	from 9 to 16V 		
Typical current draw	40mA 35mA		
Dimensions (W $x H x D$)	64 x 80 x 17 mm	19 x 50 x 51 mm	
Weight	45g	25g	

Table 2-28: nBy - description of parts

Α	Terminal board			
В	Buzzer (nBy/S only)			
С	LED			
D	Antenna			
E	Optical sensors for open-enclosure and dislodgement tamper detection			

Reader terminals:

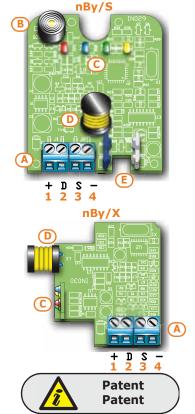
Table 2-29: nBv - terminal board

14516 2 25. 112, 11311 20414				
n.	icon/identi- fier	description		
1	+	Terminal "+" for the I-BUS connection		
2	D	Terminal " D " for the I-BUS connection		
3	S	Terminal "S" for the I-BUS connection		
4	-	Terminal "-" for the I-BUS connection		

Alien/S - 8 wire cable

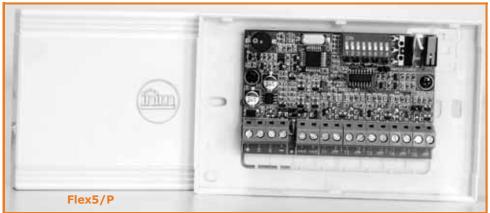


2-3-5





Flex5 Input/Output expansions 2-3-6





The input/output expansion board enclosure is available in two versions, which differ with regard to the board housing:

- Flex5/P comes in the enclosure shown above. This version can be set up to monitor
 dislodgement and open-enclosure tamper by inserting a jumper into connector [D],
 as shown.
- **Flex5/U** comes in an enclosure with on-view terminals and address DIP-Switch, as shown opposite. It is evident that this version offers little protection to the terminals. The jumper of connector [D] enables/disables the protection against open and dislodgement tamper of the plastic enclosure only.

Terminals T1, T2, T3, T4 and T5 can be configured as:

- Input (Rollerblind or Shock for terminals T1, T2, T3 and T4 only)
- Output
- Double zone
- Supervised Output

The T5 terminal can be configured as an analogue output that allows adjustment of the power supplied to a device from 0 to 10V (industrial standard 0 - 10V).

Table 2-30: Flex5 - electrical and mechanical features

Expansion board models	FLEX5/P	FLEX5/U	
Voltage	from 9 to 16V 		
Typical current draw	30mA		
Max. current across +AUX terminals	300mA @ 13.8V		
Dimensions including enclosure (W x H x D)	125 x 79 x 26 mm 105 x 58 x 18 mr		
Weight including enclosure 103g		66g	

The packages of both versions of the Flex5 expansion board contain:

- Flex5 expansion board in a plastic enclosure
- Dislodgement/Open tamper jumper
- · Jumper to set terminal T5 as an analogue output
- 10 resistors @ 3K90hm 1/4W
- 10 resistors @ 6K80hm 1/4W

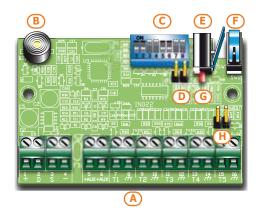
Table 2-31: Flex5 - description of parts

Α	Terminal board				
В	Buzzer				
С	DIP-Switch strip for peripheral device addressing				
D	Connector to enable peripheral-tamper detection				
E	Dislodgement-tamper microswitch				
F	Open-tamper microswitch				
G	Peripheral activity LED (where present)				
Н	Connector to set terminal T5 as an analogue output				

Peripheral activity LED signals are as follows:

- fast blinking peripheral operative and enrolled (in configuration)
- slow blinking peripheral operative but not enrolled (not in configuration)

Through appropriate programming, it is possible to activate the buzzer on activation of terminal T1 configured as an output (refer to *paragraph 7-19 Expansions*).





The Flex5 expansion board terminals are as follows:

Table 2-32: Expansion terminal board

n.	icon/identi- fier	description			
1-2-3-4	+ D S -	I-BUS connection terminals			
5-6	+AUX	12V ancillary power source terminals			
7-9-11- 13-15	T1-T2-T3- T4-T5	Screw terminals for expansion terminals: T1, T2, T3, T4 and T5			
8-10-12- 14-16	ф	Negative power terminals (Negative or GND)			

Flex5/DAC alternating current output 2-3-7 expansion

The Flex5/DAC provides 5 terminals for controlling both AC and DC loads.

Each terminal can be configured as an output with the following attribute type:

- Relay, dry contact for AC or DC devices of up to 10A
- TRIAC ON/OFF, electronic contact that functions as a relay for AC devices up to 4A maximum
- TRIAC dimmer, dimmer contact for power-choke type AC devices of up to 4A

For the technical description and installation of the Flex5/DAC refer to the manual included in the respective package.

Air2-BS200 Transceiver 2-3-8

The Air2-BS100 two-way wireless system integrates directly with all models of the INIM intrusion control panel range.

Description of the Air2 system devices:

- Air2-BS200/50 transceiver module, 50 terminals
- Air2-BS200/30 transceiver module, 30 terminals
- Air2-BS200/10 transceiver module, 10 terminals
- Air2-MC100 magnetic contact with two I/O terminals, in white or brown
- Air2-MC200 magnetic contact with shock and tilt sensor in white or brown
- Air2-KF100 4 button remote-control key
- Air2-FD100 smoke detector
- Air2-Aria/W keypad with graphic display
- Air2-Hedera outdoor sounder, in white or chrome effect
- Air2-DT200T dual technology curtain detector, in white or brown
- Air2-XIR200W PIR detector, 12m
- Air2-XDT200W dual technology curtain detector
- Air2-UT100 universal transceiver
- Air2-ODI100W outdoor wireless dual-infrared detector
- Air2-OTT100W outdoor wireless triple-technology detector

For the technical specifications and installation instructions relating to Air2 devices refer to the manuals supplied with each device and to the Air2-BS200 installation manual.

Aria/W Keypad and Hedera sounder 2-3-9

The SmartLiving control panel can manage up to 4 Aria/W keypads and 4 Hedera sounders for each Air2-BS200 installed. However, each control panel model supports a maximum number of keypads and sounders which must be respected.

During the addressing phase it is necessary to use free addresses only and to ensure that no other keypads (Aria/HG, Joy, Concept, NCode or Alien) are present at the address of the Aria/W keypads, or other sounders (Ivy-B) at the address of the Hedera sounderflashers to be included in the configuration.

IVY sounder/flasher 2-3-10

The self-powered sounders from the IVY outdoor series are controlled continuously by a microprocessor which monitors all the device parameters to ensure performance and reliability at all times.

INIM Electronics s.r.l. also offers Ivy sounderflasher models which are connectable via I-BUS cable, which permit the programming and control of SmartLiving intrusion-control panels, for extended customization of the security system.



For a complete description of all these devices refer to the Installation Guide provided with the sounderflasher.

IB100 isolators 2-3-11

Isolators from the IB100 series peripherals can be connected directly to the I-BUS, in order to increase both its length and performance.

Each isolator has 4 input terminals and 4 output terminals for the BUS connection with the following functions:

- Galvanic Isolation, up to 2500V, for the entire BUS between input and output.
- Regeneration of the communication signals.
- Detection of anomalies towards the output section and its consequent isolation.

The IB100 isolator allows the creation of two peripheral groups by means of galvanic isolation of the power supply, earth and data channels D and S of each group. In this way you can separate one group of peripherals connected and powered directly from the control panel (group A) from the group connected to the control panel via isolator and not powered from the control panel (group B).

The isolator also regenerates the D and S signals and limits discharge caused by excessive I-BUS cable length.

3 versions are available:

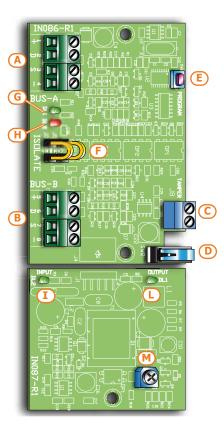
- IB100-RP, model with BUS isolation functions and power supply, comes in a white box, closed, with microswitch enablement of protection against open tamper but not dislodgement tamper.
- IB100-RU, model with BUS isolation functions and power supply, comes in a black box with terminals on-view with no anti-tamper microswitch.
- IB100-A, model with BUS isolation functions and power supply and isolated DC/DC converter, comes in a white box, closed, with a microswitch enablement of protection against open tamper but not dislodgement tamper.

Table 2-33: IB100- electrical and mechanical features

Isolator models	IB100-RP	IB100-RU	IB100-A
Minimum input voltage	9V 		
Maximum input voltage	16V 		
Output voltage interval	/ from 9 to 16V===		
Typical current draw	50mA		110mA
Maximum output current	/ 500mA		500mA
Maximum absorption from control panel	/		900mA
Operating temperature	from -5 to +40 °C		_
Dimensions	125 x 79 x 26mm 105 x 58 x 18mm 170		170 x 79 x 26mm

Table 2-34: **IB100 - description of parts**

A	Terminal board for I-BUS A (toward control panel)	All models	
В	Terminal board for I-BUS B		
С	Open-tamper terminal	Only for IB100-RP and	
D	Open-tamper microswitch	IB100-A	
Е	Configuration button		
F	Isolating jumper		
G	I-BUS A communication LED (green)	All models	
н	I-BUS B communication LED (red)		
I	BUS A power supply LED (green)		
L	BUS B power supply LED (green)	Only for IB100-A	
M	Output voltage trimmer		





Nexus dialers 2-3-12

All models of the Nexus dialer are managed by the BUS. The Standard model interfaces SmartLiving control panels with GSM communication channels whereas, the Nexus/G model also interfaces with GPRS channels.

The functions made available to control panels equipped with this device are:

- voice calls via the Nexus using an installed SmartLogos30M voice board
- digital report calls via GSM using CONTACT-ID and ADEMCO 10 bps protocols
- digital report calls via GPRS using SIA-IP (Nexus/G model only)
- SMS messages for each event using either -
 - •• the description provided by the keypad events log
 - •• the customized description (maximum 50 editable SMS texts)
- the control panel carries out commands sent by the user via SMS message
- the control panel carries out commands after recognition of the user's telephone number (CALLER-ID)
- Answerphone

Table 2-35: Nexus - electrical and mechanical features

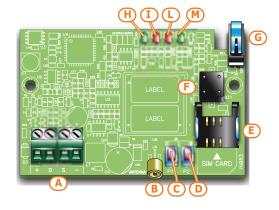
Voltage	from 9 to 16V
Stand-by current draw	90mA
Maximum current draw	900mA
Dimensions including enclosure (W x H x D)	105 x 58 x 18cm
Weight including enclosure	66g

The Nexus package includes:

- Nexus expansion board in a plastic enclosure
- · Remote antenna with 3 meters of cable

Table 2-36: Nexus - description of parts

Α	Terminal board	
В	Antenna connector	
С	P1 button	
D	P2 button	
Е	SIM card housing (non included)	
F	Buzzer	
G	Open-tamper microswitch	
Н	Communication LED (green)	
I	Emergency LED (red)	
L	Fault LED (red)	
M	Connection LED (green)	



The terminals for the BUS connection are as follows:

Table 2-37: Nexus terminal board

n.	icon/iden- tifier	description
1	+	Terminal "+" for the I-BUS connection
2	D	Terminal " D " for the I-BUS connection
3	S	Terminal "S" for the I-BUS connection
4	-	Terminal "-" for the I-BUS connection

Peripheral activity LED signals are as follows:

Table 2-38: Nexus LEDs

LED	Function	ON	OFF
Communicatio n	Indicates communication with the control panel	The LED blinks during ongo- ing communications	Not communicating
Emergency	Indicates communica- tion failure with the control panel	Blinks in the event of tam- per or fault on the BUS	Normal communication with the control panel
Faults	Indicates the presence of faults	Blinks in the event of ongo- ing faults	No faults present
Connection	Indicates the status of the GSM network	Slow blinking - Searching for the provider Fast blinking - Provider found	Device Off



After activation of the Fault LED (indicating a fault is present), you can obtain further information regarding the cause of the fault by simply pressing button P2 [D]. The successive activation of the Emergency and Fault signalling LEDs will signal as follows:

Table 2-39: Fault signalling

LED On	Fault	
Communication	No Credit	
Emergency	SIM card with PIN request enabled	
Faults	Communication problems with the GSM module	

You can obtain an indication of the GSM reception level by simply pressing button P1 [C] and observing the number of LEDs which light amongst the Communication, Emergency and the Fault LEDs (viewing lasts 5 seconds):

- 1 LED weak reception
- · 2 LED good reception
- 3 LED excellent reception

SmartLAN ethernet interface 2-4

SmartLAN boards (SmartLAN/G and SmartLAN/SI versions) allow the expansion of connectivity of all INIM control panels to the LAN and the Internet.

The operating capacity of the SmartLAN board depends on the proper configuration of the networks it is connected to. Therefore, if you are installing a SmartLAN board, it is necessary to contact the network administrator in order to configure it correctly.

Both boards allow you to programme the control panel parameters via the LAN through the **SmartLeague** software programme.

The SmartLAN/G also allows users to:

- send event-report e-mails and attachments.
- interact with the control panel through any browser (Explorer, Firefox, Opera, Safari, etc.), as long as it has an integrated web server. The web interface, after user authentication, can show:
 - • view the status of zones
 - •• view the status of partitions
 - •• view the status of timers
 - view the events log
 - •• access one of the keypads operating within the system which will provide the user with an interface that is recognized by the control panel

Thus the user will be able to arm/disarm partitions, bypass/unbypass zones, activate/ deactivate the alarm and tamper memories.

For a more detailed explanation of how to use the Web interface, refer to the User Manual of the control panel in use.

Table 2-40: Device specifications

Expansion board models	SmartLAN/SI	SmartLAN/G
Power supply voltage	12V 	
Maximum current draw	70 mA 90 mA	
Operating temperature	from -5 to +40 °C	
Dimensions	81 x 54 x 25 mm	
Maximum capacity of the μSD- card	32 GByte	
Security protocol	8-bit proprietary encryption	128-bit AES
PCB code	IN074	IN133

Table 2-41: SmartLAN - description of parts

A RJ45 LAN line jack		
B DB9 serial line jack (on the back)		
C Ancillary power connector (SmartLiving515 only)	Ancillary power connector (SmartLiving515 only)	
D μSD-card connector	μSD-card connector	
E RESET button	RESET button	
F HARD RESET button	HARD RESET button	

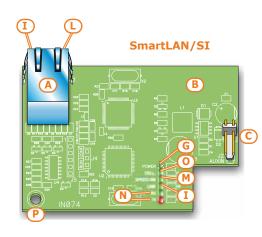
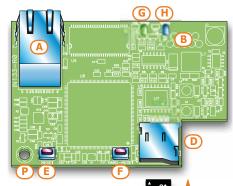




Table 2-41: SmartLAN - description of parts

G	LED - Board power	
Н	LED - Control panel to SmartLAN connection	
I	LED - Network connection	
L	LED - Network activity	
М	LED - Connection speed at 100Mbps	
N	LED - transmission/reception over BUS RS232	
0	LED - Network collision	
Р	Fixing hole and earthing	
Q	μSD-card (not included)	

SmartLAN/G



distribution board

2-5 **AUXREL32 Power**

The AUXREL32 power distribution board (accessory item) can be used with SmartLiving 1050L and 10100L models. It provides two relays and allows the system to take full advantage of the current supplied by the switching power supply of the control panel.

Each relay, has a voltage-free contact identified by terminals C1-NO1-NC1 and C2-NO2-NC2. The relays are activated by the OC1 and OC2 outputs on the control panel. The activation of each relay is signaled by the on-board LED ([D] for relay 1 and [E] for relay 2).

The 3 pairs of terminals are available, each protected by a resettable fuse (GND/AUX1 -GND/AUX2 - GND/AUX3), and each capable providing 12V@1A.

Table 2-42: AUXREL32 - electrical and mechanical features

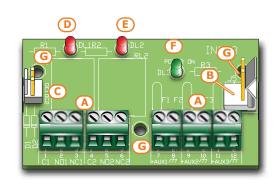
Power supply voltage	12V
Maximum current	3A
Operating temperature	from -5 to +40°C
Dimensions	42 x 78 x 20 mm

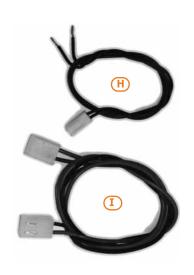
Table 2-43: AUXREL32 - description of parts

Α	Terminal board	
В	12V connector	
С	OC1/OC2 connector	
D	Relay LED 1	
E	Relay LED 2	
F	12V present LED	
G	Mounting screw hole	
Н	OC1/OC2 connection wire (included)	
I	12V power wire (included)	

Table 2-44: AUXREL32 terminal board

n.	icon/identifier	description	
1-2-3	C1-NO1-NC1	Free voltage relay 1	
4-5-6	C2-NO2-NC2	Free voltage relay 2	
7-9-11	AUX1-AUX2-AUX3	12V@1A screw terminals	
8-10-12	ďτ	Negative power terminals (Negative or GND)	







Chapter 3

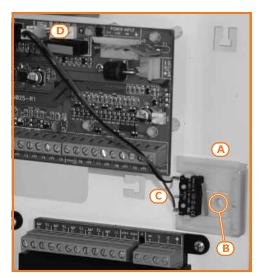
INSTALLATION

3-1 Installing the control panel

Wall-mounting 3-1-1

The control panel should be located in a hidden place that can be accessed by authorized building occupants only.

- 1. Using the backbox (Table 2-6: Control panels description of parts, J), mark the anchor screw locations on the wall. Be sure not to drill in the vicinity of electrical wiring or plumbing/gas pipes, etc.
- 2. Insert the screw anchors (recommended size 6mm).
- 3. Pass the wires through fairlead glands.
- 4. Using the screws, attach the backbox to the wall.
- 5. Fit the control panel dislodgement-tamper protection (optional):
 - 5.1. Insert the dislodgement-tamper bracket [A] into its location on the backbox of the control panel (Table 2-6: Control panels description of parts, K).
 - 5.2. Using screw location [B], screw the bracket to the wall.
 - 5.3. Connect the wire coming from the dislodgement-tamper microswitch [C] to the connector [D] on the board (Table 2-8: Mother board - description of parts, J).



The cable gland must be flame class rating V-1 or higher.

Note

3-1-2

Connecting the Mains power supply

The control panel must be powered through a separate line coming from the Mains box. The line must be protected by a safety-standards compliant circuit breaker (trip switch).

The circuit breaker (trip switch) must be located externally to the apparatus and should be easily accessible. The distance between contacts must be at least 3mm. The manufacturer strongly advises the use of a magnetothermic switch with C intervention curve and nominal (maximum) current - 16A.

The protective earthing system must be compliant with all safety standards and laws in force.

Ensure that the Mains is switched Off during the mains connection phase. Danger of electric shock.

DANGER!



- 1. Pull the power-supply wires through the wire entry [A].
- 2. Connect the primary power-supply to the appropriate terminals [B] (Table 2-6: Control panels - description of parts, E). Follow the indications on the label [C] located near the mains terminal board. For a safety standard compliant installation the phase wire must be connected to the "L" terminal and the neutral wire to the "N" terminal.
- 3. Ensure that very low safety voltage or signal wires do not come into contact with dangerous voltage points. Using a cable tie, bunch the wires together and connect them firmly to one of the

cable hooks on the backplate of the enclosure.

The end of a stranded wire must not be consolidated with soft soldering in points where the wire is subjected to contact pressure.

Note

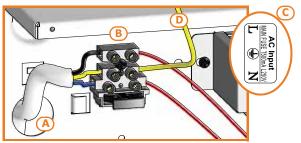


- 4. Connect the earth wire to terminal "(=)" of SmartLiving505 and 515 control panels.
- 5. Ensure that the frontplate [D] is earthed.

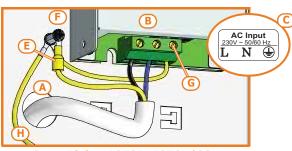
SMARTLIVING 505 AND 515

- 4. Crimp the earth wire to the ring terminal [E] (included).
- 5. Attach the ring terminal wire to the earth screw [F] of the control panel.
- 6. Ensure that terminal " of the power supply module [G] and the frontplate [H] are connected to earth.

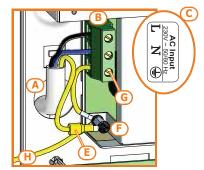
SMARTLIVING 1050 AND 10100



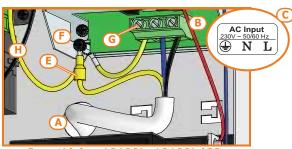
SmartLiving 505, 515



SmartLiving 1050L, 1050L/G3,



SmartLiving 1050, 1050/G3



SmartLiving 10100L, 10100L/G3

Connecting the backup battery

3-1-3

The backup battery [A] connection must be completed during the phase described in *Chapter 4 - First power up.*

The metal enclosure of SmartLiving 505, 515 and 1050/G3 control panels is capable of housing one lead battery @12V 7Ah or 9Ah.

The metal enclosure of the SmartLiving 1050L, 1050L/G3, 10100L and 10100L/G3 control panels is capable of housing one lead battery @12V 17Ah.

The battery casing must have HB flame rating or higher.

Using the battery wire [B] (included), connect the battery directly to the control panel motherboard.

Ensure that battery polarity is correct:

- black wire = negative
- red wire = positive

Connect the cable to the control panel using the appropriate connector [C]:

- For SmartLiving 505, 515, 1050 and 1050L control panel models, the connector is on the motherboard (*Table 2-8: Mother board description of parts, B*).
- For SmartLiving 1050/G3, 1050L/G3, 10100L and 10100L/G3 control panel models, the connector is on the power supply unit (*Table 2-7: Power supplies - description of parts, D*).

The lead battery is the secondary power source which powers the system when the primary (mains) power source fails (230V 50Hz).

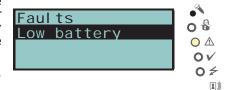
Once powered up, the panel will charge and monitor the batteries automatically. The panel tests the efficiency of the batteries by simulating load current demand at regular 4 minute intervals. If the control panel detects a voltage inferior to 10.4V (battery inefficient), it will generate an Empty battery event that will not clear until the voltage goes back to over 11.4V.

This fault will be signalled on the yellow LED on the keypads. To view the fault event, work through the following steps:

User menu, Vi ew (OK), Faul ts (OK)

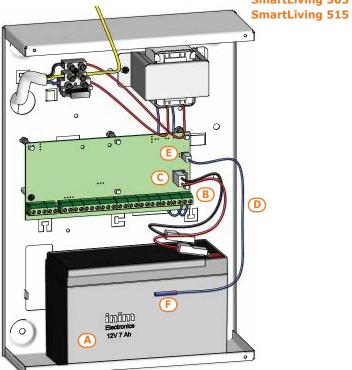
Note

ATTENTION!

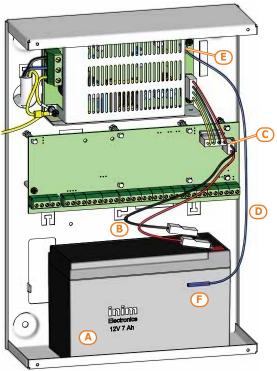




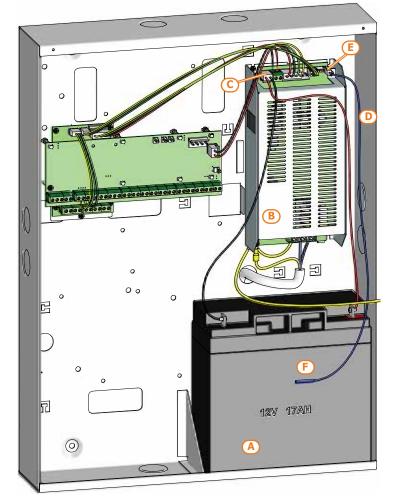




SmartLiving 1050



SmartLiving10100L/G3





Thermal probe 3-1-4

The thermal probe [D] optimizes the battery charge process. This device regulates the charging process in accordance with the battery temperature. The thermal probe protects against battery overheating and consequent permanent damage to the battery.

To connect a thermal probe, work through the following steps.

- 1. Disconnect the battery (if necessary).
- 2. Connect the thermal probe to the connector on the power supply [E]. For control panels equipped with transformers (SmartLiving 505 and 515), it is necessary to connect the probe directly to the connector on the motherboard (Table 2-8: Mother board description of parts, C).
- 3. If you are installing a SmartLiving505 or 515 model, remove the jumper on the motherboard to enable the thermal probe (refer to *Table 2-8: Mother board description of parts, D*).
- 4. Using adhesive-insulating tape, attach the thermal probe to the battery [F], in such a way as to provide optimized heat-transfer measurements.

Opening and closing the control panel 3-1-5

If you wish to remove the metal frontplate, work carefully through the following steps.

- 1. Type-in the installer code on the keypad and press **ok**. Access to the installer menu inhibits the activation of the output and any report calls associated with the "Open-panel" event.
- 2. Remove the four screws and the metal-frontplate.
- 3. Insert the Maintenance jumper (refer to *paragraph 3-1-9 Maintenance status*) and carry out the necessary work.

Once your task is complete, work carefully through the following steps.

- 1. Remove the Maintenance jumper.
- 2. Using the 4 screws, secure the frontplate to the backbox.
- 3. Exit the Installer menu.

If you exit the Installer menu before replacing the panel frontplate, the system panel will not generate an open-panel event.

However, the system will generate an open-panel event, if the frontplate is not replaced within 15 seconds of closing the open-tamper microswitch.

Note

Land-line connection (PSTN)

Connect the land line (PSTN) to terminals 4 and 5 on the control panel motherboard (*Table 2-9: Mother board - terminal board, 4-5*).

In order to protect the control panel against the discharge of atmospheric electricity, (lightning), the manufacture strongly advices the use of the two varistors (150VRM) included in the package. These varistors must be connected to the earth line 1 and terminals 4 and 5 of the landline (PSTN).

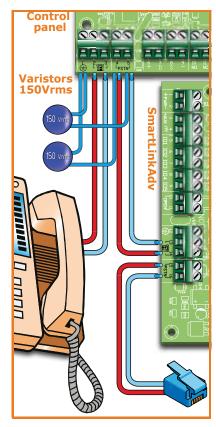
If you are installing the system in a place where the land line (PSTN) service is not available, or if you wish to increase the level of security of the system, these terminals also accept a GSM interface (such as SmartLink) which simulates the analogue land-line.

Inim's SmartLinkAdv telephone dialler is available in two versions, model G and model GP. Both devices monitor the analogue land line and in the event line-down conditions (e.g. wire-cutting) simulate the analogue land line and allow the control panel to switch incoming/outgoing calls to the GSM network.

You can also use the terminals on the SmartLinkAdv board to extend the functions provided by the SmartLiving system. The following section describes several methods which will allow you to provide users with advanced functions.

- Arming/Disarming the system over-the-phone using a cost-free call or SMS text
 By connecting one of the SmartLiving board terminals with "follow zone"
 configuration to an output on the SmartLinkAdv board, it will be possible to arm or
 disarm the SmartLiving system via SMS.
 In a similar way, using a "switching zone" configured terminal, it will be possible to
 arm or disarm the SmartLiving system simply by means of a recognized incoming
- Receive an SMS text in the event of Control panel alarm
 By connecting one of the alarm outputs of the SmartLiving control panel to an input
 on the SmartLinkAdv board, it will be possible to receive alarm warning via SMS
 text. The system can be set up to send an editable SMS text to 10 different contact
 numbers.

3-1-6



30

call.



All the functions of the SmartLiving system which use the land line (voice dialler, answerphone, alarm receiving centre and teleservice) can be managed completely over the GSM network by the SmartLinkAdv. The SmartLink also allows teleservice maintenance over the GSM network.

If there are ADSL filters on the line, you must connect the control panel downstream of the filters, to the line dedicated to telephone equipment (this line is clearly indicated on the filters).

Note

If the control panel is not equipped with a SmartLogos30M voice board, voice calls will produce a continuous beep for 30 seconds.

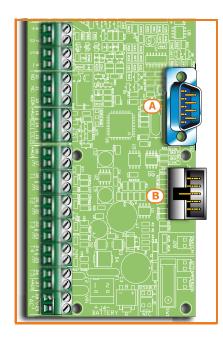
Connecting to a PC 3-1-7

Programming from a PC requires the SmartLeague software programme (refer to paragraph 7-3 Programming via the SmartLeague software) and an RS232 serial cable.

Insert the RS232 serial link (accessory item) into the connector [A], as shown in the figure opposite. If your PC is not equipped with an RS232 port, but has a USB instead, you can use INIM's approved RS232-USB adapter (accessory item).

Table 3-1: RS232 connector cable

SmartLiving end DB9F connector		PC end DB9F connector		
1—9	2	3		
	3	2		
	4	4	9	
	5	5		
	6	6	1	
	7	7		
	8	8		
SmartLiving end DB9F connector		PC end DB25F connector		
1 9	2	2		
	3	3	25	
	4	20		
	5	7		
	6	6		
	7	4	1	
	8	5		



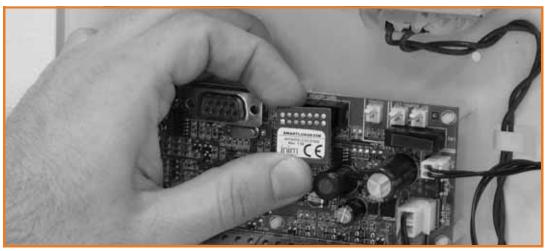
Connecting the SmartLogos30M voice board (accessory item)

3-1-8

The SmartLogos30M voice board provides the SmartLiving system with an array of useful voice functions.

For proper installation of the board, work carefully through the following steps.

- 1. Disconnect all power sources to the control panel (mains and lead batteries).
- 2. Connect the board to the respective connector [B].
- 3. Power up the system from the mains and reconnect the lead batteries.





Maintenance status

3-1-9

The maintenance status is signaled on the keypads by the "Maintenance" message and the address of the keypad. The address of the built-in reader (if enabled) of JOY/MAX keypads will also be shown.

During service/maintenance mode, the control panel:

- Forces the relay output on the motherboard (*Table 2-9: Mother board terminal board, 10-11-12*) to standby status.
- Does not activate the outputs (and will force to standby any active outputs) triggered by:
 - •• alarm or zone/partition tamper
 - peripheral tamper
 - open/dislodged panel tamper
- It allows initialization of the keypad address programming phase.
- It allows initialization of the reader address programming phase.
- Initializes automatically the auto-enrollment of the peripherals connected to the BUS at 10 seconds intervals. It allows assignment of the addresses to the peripherals connected to the BUS and, at 10 second intervals, enrolls the peripherals it finds.
- The control panel will not reset the BUS in an attempt to retrieve peripherals in the event of peripheral loss.
- It will continue to operate as normal, except under the aforesaid circumstances.

During service/maintenance mode, the Alien keypad:

- Does not require user-code entry to access the sections which correspond to the "Settings" key.
- The first parameters shown in the "Settings Alien" section are the addresses of the Alien keypad and its built-in proximity reader and, only for the Alien/S, the status of tamper enablement on the keypad.
- It is not possible to access the "Climate" section.
- The display shows the address of the Alien keypad and its built-in proximity reader in the top left-hand corner of the home page.
- The display shows the letters relating to the operating status of the partitions in the bottom left-hand corner of the home page.

The control panel can be placed in maintenance mode by:

- Inserting the Maintenance jumper in the "SERV" position.
- · Enabling the "Maintenance" option

The Maintenance jumper (*Table 2-6: Control panels - description of parts, G*) can be inserted in two different positions:

- "RUN" (control panel operating normally)
- "SERV" (control panel ready for maintenance work)

The control panel enters "Maintenance" mode when this option is enabled and exits "Maintenance" mode when it is disabled. You can enable/disable this option at the keypad or via computer.

Via Keypad

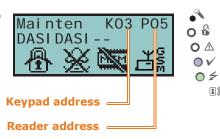
1. Access the "Programming Panel options" section.

Type-in Code (Installer PIN) (oK), PROGRAMMING Panel options (oK)

- 2. Press to enable the "Maintenance" option, or to disable it.
- 3. Press (oK) to exit and save.

Via PC

Select "SmartLiving System" from the tree menu on the left, then go to the "Programming" template on the right: The "Control panel parameters" section provides the "Maintenance" option, click-on this option to enable/disable it.







USING THE MAINTENANCE JUMPER

THE "MAINTENANCE" OPTION

32



Connecting peripherals

3-2

3-2-1

The I-BUS line wiring

The SmartLiving peripherals (keypads, readers, expansions, sounderflashers, transceivers, isolators and GSM communicator) must be connected to the control panel via the I-BUS.

The connection between the control panel and its peripherals is achieved through a 4 wire (or more) cable.

The shield must be connected to one of the right terminals (Negative or GND) at the control panel end only, and must run along the BUS without being connected to negative or GND at any other point.

The cable specifications depend on the length of the BUS (from the panel terminals to the most distant point), Baud rate and the load current draw.

The connection with the control panel is achieved through terminals "+ **D S**-" on the motherboard (*Table 2-9: Mother board - terminal board, 6-7-8-9*) of all models except SmartLiving 1050/G3, 1050L/G3 and 10100L/G3 for which you must use terminals "+ **D S**-" on the LIVPWR100 board (*Table 2-10: LIVPWR100 board - terminal board, 1-2-3-4*).

Table 3-2: Recommended cable

Cable AF CEI 20-22 II	n. wires	Section (mm ²)	I-BUS termi- nal
4 wire cable + shield	2	0.5	+ -
	2	0.22	D S
6 wire cable + shield	2	0.5	+ -
	2	0.22	D S
	2	0.22	available
6 wire cable + shield	2	0.75	+ -
	2	0.22	D S
	2	0.22	available

The maximum wire length of the I-BUS depends on the deployment of the peripherals connected to the line and their specific current draw (in particular the keypads and expansion boards). The power to peripherals and detectors can be supplied by external power stations or by the line itself.

Furthermore, the speed of the communication BUS (Baud rate) can be modified by means of the SmartLeague programming software. If the BUS does not supply the peripherals or the devices connected to them, a maximum wire length of 300 meters at maximum speed (250kbs) can be ensured, regardless of the number of peripherals connected. At an intermediate speed (125kbs) a single section of 700 metres can be ensured.

If you wish to increase the length and performance of the BUS, you can connect IB100 isolators.

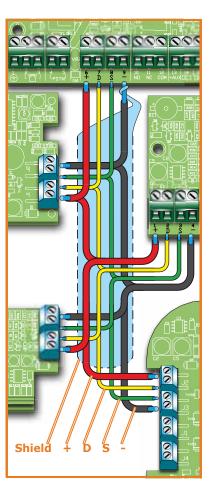
If the speed of the communication BUS (Baud rate) is low (38.4 or 125 kbps), you can apply a maximum of 5 isolators in a cascade connection.

If the speed of the communication BUS (Baud rate) is high (250 or 2 kbps), you can apply a maximum of 2 isolators in a cascade connection.

You can connect up to 15 isolators in all.

It is extremely important to evaluate correctly the number of isolators connected in cascade to the BUS.

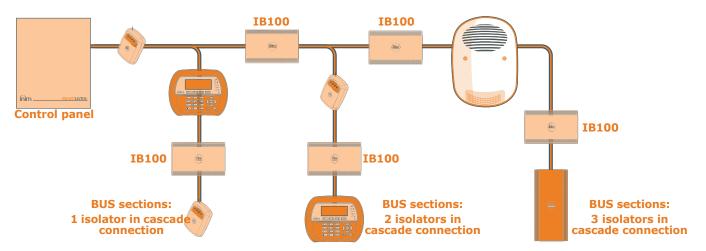
ATTENTION!



ATTENTION!

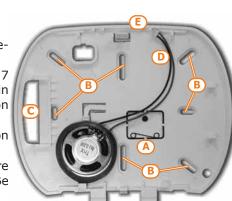


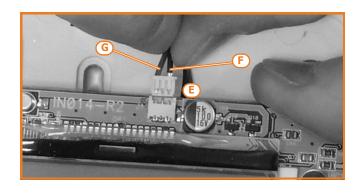
The following example will help you achieve a correct evaluation:

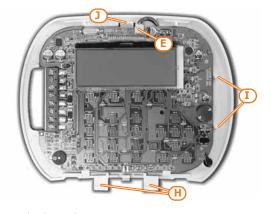


Installing JOY keypads 3-2-2

- 1. Remove the keypad from its package.
- 2. Detach the down-flip and cover from the backplate.
- 3. Remove the board from the backplate. Be careful not to damage the dislodgement-tamper spring ([A]) during this operation.
- 4. Mark the chosen anchor-screw locations [B] on the wall. Use at least 2 of the 7 locations available. Drill the anchor-screw holes (ensure that you do not drill in the vicinity of electrical wiring or plumbing). Pull the BUS and terminal connection wires through the wire entry [C] and attach the backplate securely to the wall.
- 5. Using the screw, fasten the dislodgement-tamper bracket into its screw location [D].
- 6. For JOY/MAX only: Plug the speaker connector [E] into the keypad circuit, ensure that polarity is correct (black wire to the right [F] and red wire to the left [G]). Be careful not to damage the connector during this operation.
 - If it is necessary to disconnect the connector from the speaker, use a small screwdriver or similar tool to disengage it by pressing lightly on the part in plastic. DO NOT pull the connector out by the wires.







- 7. Place the circuit on the two lower supports [H] and, after aligning it with the other supports [I], push the back-locking grip [J] slightly outwards until it clicks closed. Be careful not to damage the dislodgement-tamper spring [A].
- 8. Replace the cover and down-flip. If necessary, secure the two screws into their screw locations on the bottom part of the cover.

Installing the Aria/HG keypad 3-2-3

- 1. Choose a suitable mounting location.
- 2. Put the wall bracket on the selected placement and mark the screw holes (*Tabella 2-17: Aria/HG description of parts, L*).
- 3. Drill the holes.
- 4. Pull the wires through the cable entry (*Tabella 2-17: Aria/HG description of parts, M*) and wire up the keypad.
- 5. Using the anchor screws, secure the bracket to the wall.



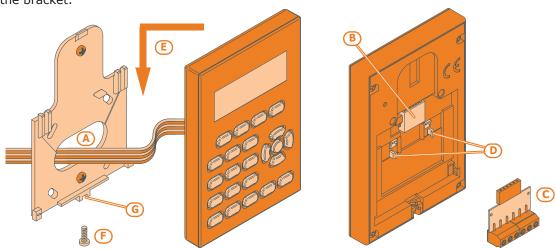
Do not use or remove the counter support on the back of the keypad (*Tabella 2-17:* Aria/HG - description of parts, H).

ATTENTION!

- 6. Mount the keypad to the wall bracket, by first inserting the locking grips (*Tabella 2-17: Aria/HG description of parts, K*) in place, then by pushing the keypad toward the wall then downward.
- 7. Fasten the securing screw in place (*Tabella 2-17: Aria/HG description of parts, J*).

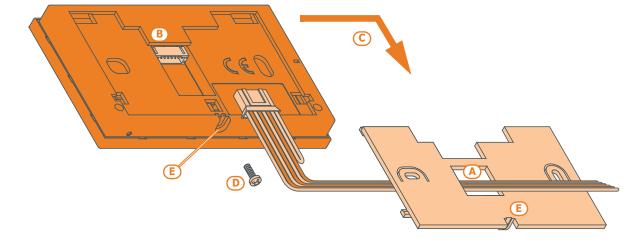
Installing nCode/G and Concept/G keypads

- 1. Connecting the device to the system
- 2. Pull the connection wires through the wire entry [A].
- 3. Connect the cables to the connector on the keypad backplate [B]. If you are using the connector provided with the KB100 kit [C], connect the wires to the terminals, in accordance with the instructions described in *paragraph 2-3-3 nCode/G and Concept/G Keypads*, then insert the connector into the guide [D] until it locks into place.
- 4. Using at least 2 screws, mount the bracket to the wall.
- 5. Using the back-locking grips, attach the keypad to the bracket (as shown in figure [E]).
- 6. Fasten the screw [F] (included) into the screw location [G], to secure the keypad properly to the bracket.



Installing Alien/S keypads 3-2-5

- 1. Connecting the device to the system
- 2. Pull the connection wires through the wire entry [A].
- 3. Connect the cables to the connector on the keypad backplate [B].
- 4. Using the respective anchor holes, mount the bracket to the wall or 503 box.
- 5. Using the back-locking grips, attach the keypad to the bracket (as shown in figure [C]).
- 6. Fasten the screw [D] (included) into the screw location [E], to secure the keypad properly to the bracket.

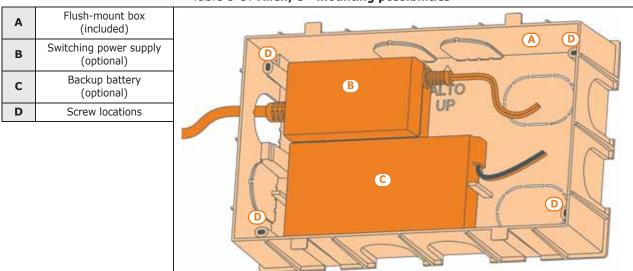


Installing the Alien/G keypad 3-2-6

- 1. Prepare the placement area on order to flush-mount the device, taking care not to damage any electrical wiring, gas or water papers, etc.
- 2. Insert the flush-mount box (*Table 3-3: Alien/G mounting possibilities, A*) into the placement area and secure it in place.
- 3. Pull the wires through the most suitable wire entry.
- 4. Place the backup battery and Alien/G power supply in the most suitable position inside the box.
- 5. Connect to the mains network.
- 6. Open the Alien/G casing by first removing the safety screw and then pushing the enclosure clasp open.
- 7. Pass the wires through the wire entry on the back of the Alien/G.
- 8. Fit the screws into the screw locations (*Table 3-3: Alien/G mounting possibilities, D*) and attach the Alien/G securely to the flush-mount box.

 After securely mounting the Alien/G, make sure that the microswitch is closed.
- 9. Complete all the connections.
- 10. Close the Alien/G.

Table 3-3: Alien/G - mounting possibilities



Alien/G power supply

The Alien/G can be powered via three different sources, which can be used, therefore connected, individually or simultaneously.

The mains supply requires the use of a power supply ($Table\ 3-3$: Alien/G - $mounting\ possibilities$, B) and a separate line from the mains box. The line must be protected by a safety-standards compliant circuit breaker (trip switch).

The protective earthing system must be compliant with all safety standards and laws in force.

Connect the power supply (already connected to the mains) to terminals "+ **14** -" on the PCB, taking care to respect the correct polarity of the wires. The power supply will provide power to the Alien/G and the devices connected terminal to "+" of the BUS and also recharge the backup battery.

The I-BUS line for the direct connection to a SmartLiving control panel supplies 12V current through the I-BUS connection terminals "+" and "-" on the PCB. This current provides power to the Alien/G and the devices connected terminal to "+" of the BUS and also recharges the backup battery.

The backup battery connection (*Table 3-3: Alien/G - mounting possibilities, C*) must be done using the connector on the PCB and the wire with a faston terminal at each end (included).

I-BUS

3-2-7

230V~ 50HZ

MAINS POWER SUPPLY

BACKUP BATTERY

ATTENTION!

Ensure that battery polarity is correct:

- black wire = negative
- red wire = positive

The lead battery is a secondary power source that provides power to the Alien/G and the devices connected to the BUS, whether it is equipped with a power supply or I-BUS or both.

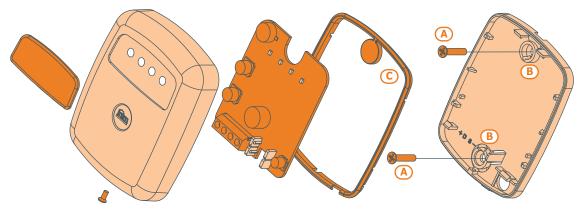
36



Installing nBy/S readers 3-2-8

The wall-mount nBy/S reader is suitable for indoor and outdoor installation.

Insert the two anchor screws [A] (included) into the two screw locations [B] on the plastic backplate.



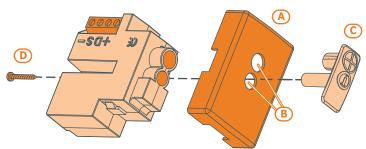
In order to avoid the risk of piercing the silicone seal [C], and thus jeopardizing the waterproofing of the enclosure, insert the screws before fitting the seal.

ATTENTION!

Installing nBy/X readers

The Universal flush-mount nBy/X (**Patent Pending**) has been especially designed to integrate with all brands of cover plates [A]. Drill two holes [B] for the light guide [C]. Use the adhesive drill-pattern (see opposite) to mark the drilling locations accurately.

- 1. Ensure that the centre of the cover plate coincides with the crossing of the axes x and y on the drill-pattern. In this way, the two drilling locations (1 x 7mm diameter and 1 x 8mm diameter) will be positioned precisely.
- 2. Using the screw [D], secure the reader components inside the cover plate.
- 3. Insert the cover plate (with the reader already assembled) into the light switch box.

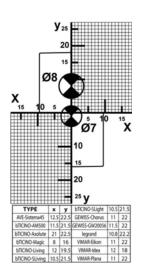


The nBy/X reader is not equipped with built-in dislodgement-tamper protection. However, the following section describes how you can protect nBy/X reader against this kind of tamper.

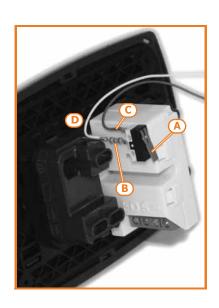
In order to comply with Italian certification (Level 2 - IMQ Security Systems), all the system peripherals must be protected against tamper. Installation of a microswitch will allow the reader to signal tamper events. To obtain this type of protection, work carefully through the following steps.

- 1. Use a microswitch with at least two normally-open contacts [A]. The one shown in figure 3 has 3 contacts: COM-NO-NC.
- 2. Configure one of the terminals as follows: Input; 24H; Description = "Tamper reader x"; single balancing with 6K8W [resistance [B]; unlimited alarm cycles. Assign the duly programmed terminal to at least one keypad partition.
- 3. Using 2 wires, connect the microswitch to the 24H input terminal.
- 4. On the microswitch:
 - 4.1. using one of the two wires, connect the common contact (COM) to the GND terminal of the 24H terminal [C].
 - 4.2. Connect the normally-open contact (NO) to one end of the 6k8W resistance [D] (the normally-open contact generates a short-circuit between itself and the COM contact when the microswitch-lever is compressed). Connect the other end of the resistance to the wire which is connected to the 24h input terminal.

3-2-9



DISLODGEMENT TAMPER





 Install the microswitch as shown in the previous figure, so that the switch lever is compressed. If an unauthorized attempt to dismantle the nBy/X reader occurs, the lever will expand in order to open the contact which triggers instant alarms on the 24H terminal.

This wiring method can be applied in most situations, however, it is only a point of reference. In order to ensure proper protection, you must always take in to account the specific mechanical and electrical conditions of the device you are working on.

Note

In order to avoid malfunction, it is advisable not to install nBy/X readers onto metal plates.

ATTENTION!

Installing the Nexus

3-2-10

In order to allow this device to function properly, you must install it in a safe, dry place which provides the best possible GSM reception.

Disable the SIM card PIN.

ATTENTION!

- 1. Ensure that the Nexus is not powered-up.
- 2. Insert the SIM card into its housing (refer to *Table 2-36: Nexus description of parts, E*).
- 3. Install the antenna and connect it to the respective input (refer to *Table 2-36: Nexus description of parts, B*).
- 4. Connect the BUS to the terminal board (refer to *Table 2-36: Nexus description of parts, A*).

Addressing the peripherals

3-3

In order to allow the control panel to identify the peripherals distinctly, you must assign a different address to each device. However, you can assign the same address to two devices which belong to different categories (e.g. a Flex5 expansion and a JOY keypad) as, in this case, the control panels will see them as two distinct devices.

You must not exceed the maximum number of addresses allowed for each type of peripheral. The following table shows the available peripheral addresses and the maximum number of addresses accepted.

The top left section of the Table shows the maximum number of assignable addresses (5 for the SmartLiving505 model, 10 for the515 model, 20 for the 1050 model and 40 for the 10100 model) and the DIP-switch configuration of the Flex5 expansion board (refer to paragraph 3-3-4 Addressing FLEX5 expansion boards).

The second section shows the nBy/S and nBy/X reader addresses with the corresponding combination of the reader LEDs (refer to *paragraph 3-3-5 Addressing nBy readers*).

The section on the far right shows the addresses available for the keypads (refer to paragraph 3-3-2 Addressing the keypads).

For the Air2-BS200 transceivers, Ivy-B sounderflashers and IB100 isolator addressing procedure, refer to the respective Installation Guides.

It is possible to connect only one Nexus device to the SmartLiving control panels, therefore, there no addressing procedure is required.



Table 3-4: Peripherals address

	Funanciana	DIP-switch	L
	Expansions address	12345678	-
1	1	00000000	ı
SmartLiving 505	2	00000001	ı
Livin	3	00000010	ı
nart	4	00000011	ı
S	5	00000100	ı
	6	00000101	ľ
515	7	00000110	
iving	8	00000111	
SmartLiving 515	9	00001000	
Snr	10	00001001	
	11	00001010	Г
	12	00001011	
050L	13	00001100	
1 pu	14	00001101	
50 aı	15	00001110	
g 10	16	00001111	
Livin	17	00010000	
SmartLiving 1050 and 1050l	18	00010001	
Š	19	00010010	
	20	00010011	
	21	00010100	Г
	22	00010101	
	23	00010110	
	24	00010111	
	25	00011000	
	26	00011001	
	27	00011010	
_	28	00011011	
100	29	00011100	
10 au	30	00011101	
Livir	31	00011110	
SmartLiv	32	00011111	
S	33	00100000	
	34	00100001	
	35	00100010	
	36	00100011	
	37	00100100	
	38	00100101	
	39	00100110	
	40	00100111	

	Expansions and transceivers address	Red	Blue	Green	Yellow	nBy/S BS200	nBy/X	Keypads address
	1	0	0	0	1	000		
	2	0	0	1	0	0000	•	1
515	3	0	0	1	1	0000	<u> </u>	
SmartLiving 505 and 515	4	0	1	0	0	0000	•	2
502	5	0	1	0	1	000	•	
iving	6	0	1	1	0	0000	•	3
nart	7	0	1	1	1	0000	4	4
Sn	8	1	0	0	0	•000	•	4
	9	1	0	0	1	●00●	Ď	-
	10	1	0	1	0	●0●0	•	5
	11	1	0	1	1	0000	•	6
	12	1	1	0	0	••00	$lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{{\bf a}}{lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{lackbox{}{{\bf a}}{{\bf a}}$	0
SmartLiving 1050 and 1050L	13	1	1	0	1	••0•		7
nd 1	14	1	1	1	0	•••0	•	/
50 a	15	1	1	1	1	••••		8
10 JC	16	0	0	0	L	0000	igoplus	0
Livir	17	0	0	L	0	0000	⊕	9
mart	18	0	0	L	L	0000	₩	9
S	19	0	L	0	0	0000	(10
	20	0	L	0	L	0000	⊕	10
	21	0	L	L	0	0000	⊕	11
	22	0	L	L	L	0000	₩	11
_	23	L	0	0	0	8 000	•	12
100	24	L	0	0	L	0000	❸	12
)1 gr	25	L	0	L	0	0000	⊕	13
ELivir	26	L	0	L	L	8088	₩	15
SmartLiving 10100L	27	L	L	0	0	0000	₩	14
S	28	L	L	0	L	0000	�	17
	29	L	L	L	0	0000	€	15
	30	L	L	L	L	0000	₩	

0	0	LED Off
1	•	LED On
L	0	Flashing LED

Fast addressing of keypads and readers 3-3-1

If, within 4 seconds of inserting the maintenance jumper ($Table\ 2-8$: $Mother\ board\ -description\ of\ parts,\ G$), you press the open-tamper microswitch on the control panel cover ($Table\ 2-8$: $Mother\ board\ -description\ of\ parts,\ L$), the SmartLiving system will activate the fast addressing function for the keypads and readers.

All the keypads and readers connected to the I-BUS will be placed in address programming status and assigned their addresses in sequential order.

At the point, you (the installer) can either change or confirm the assigned addresses.

In order to accept this command, the keypad must be 1.12 firmware version or higher.

Note



Addressing the keypads

3-3-2

To assign addresses to keypads, follow the procedure described in *paragraph 3-3-1 Fast addressing of keypads and readers* or work through the following steps:

- 1. Put the control panel in "Maintenance" mode by inserting the respective jumper (*Table 2-8: Mother board description of parts, G*).
- 2. On the keypad you wish to assign an address to, press and release keys 1., and 3 def simultaneously; set the address then press ok (if the keypad firmware version is 1.02 or higher, go to point 5).
- 3. (for keypads with built-in reader) enable or disable the reader press key 1 ., or 2 abc.
- 4. (for keypads with built-in reader) if the reader is enabled, assign the address and press **OK**).
- 5. If the keypad firmware version is 1.02 or higher, enable or disable the dislodgement tamper protection by pressing 1 , or 2 abc.
- If the keypad firmware version is 1.08 or higher, enable or disable the dislodgement tamper protection by pressing 1... or 2 abc.

For security reasons, if the address is not assigned within 30 minutes of accessing "Maintenance" mode (SERV jumper inserted), the keypad will exit the programming phase automatically.



Note

Addressing the Alien keypad 3-3-3

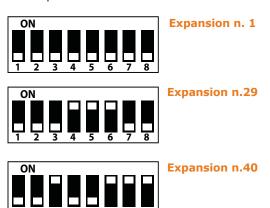
Work carefully through the following steps.

- 1. Put the control panel in "Maintenance" mode (paragraph 3-1-9 Maintenance status).
- 2. From the Alien keypad, access the "Settings" section by tapping the then access the "Alien" section. This section provides a list of the keypad parameters.
- 3. Set the parameters:
 - •PROXY ADDRESS Alien keypad address
 - •PROXY ADDRESS built-in reader address
 - •ALIEN TAMPER keypad tamper enablement
- 4. This parameter can be changed by means of keys + and -.
- 5. Tap **SAVE** to set the addresses and exit.

Addressing FLEX5 expansion boards 3-

Using a small screwdriver or similar tool, set the expansion board address on the 8-segment DIP-Switch strip (*Table 2-31: Flex5 - description of parts, C*). Each segment can be set at "1" (On) or "0" (Off).

The figure shows some examples.



The address of the Flex5/DAC board is assigned through the respective programming menu.



Addressing nBy readers

3-3-5

To assign addresses to the system readers (with the exception of the built-in readers of the keypads), follow the instructions described in *paragraph 3-3-5 Addressing nBy readers* or work carefully through the following steps:

- 1. Put the control panel in "Maintenance" mode (paragraph 3-1-9 Maintenance status).
- 2. Start the "Address Programming" phase using the software or from a keypad:

Type-in Code (Installer PIN) (ok), PROGRAMMING Readers (ok), Prog. address (ok).

or

via the software select "Proximity readers", go to the "Programming" section and then click on "Proximity Reader address configuration".

- 3. Each reader indicates its own address on its LEDs (refer to the Table in *paragraph 3-3 Addressing the peripherals*).
- 4. Hold a valid key in the vicinity of the reader. The reader will run through a series of available reader-addresses (an address every 2 seconds). Remove the key when the LEDs indicate the desired address.
- 5. The reader will hold the addressing phase for a further 10 seconds, in order to allow you to change the address if necessary.
- 6. The reader will assign the selected address when the 10 second period expires.
- 7. If you wish to assign an address to another reader, hold a valid key in the vicinity of the reader and work through points 4 to 6.
- 8. End the reader-address programming phase initialized at point 2 by exiting the "Prog. Address" menu via keypad or, if you are using the SmartLeague software, by clicking on "Stop reader address setup".

This procedure does not apply to readers that are built into the keypads.

Auto-enrolling peripherals

The peripherals connected to the BUS are enrolled automatically in the following situations:

- on first startup (refer to Chapter 4 First power up)
- in "Maintenance" mode (refer to paragraph 3-1-9 Maintenance status)
- from the Installer menu (refer to paragraph 7-25 Default settings)

Type in Code (Installer) (or), PROGRAMMING Default settings (or), Auto enroll periph. (or).

Wiring and balancing alarm detectors

The wiring and respective balancing method depend on the type of detector you are installing, and the level of protection you wish to achieve. The detectors can be powered through:

- terminals [+AUX/12V] and [-/GND] on the control panel
- terminals [+AUX/12V] and [-/GND] on FLEX5 expansions
- terminal [+/12V] and terminals [-/GND] on keypads
- from any 12V ancillary source on condition that its GND reference is in common with that of the control panel.

The resistors used for balancing are:

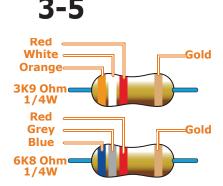
- •• 3K90hm 1/4W
- •• 6K80hm 1/4W

The following Table indicates the protection level of each detector type and the balancing options provided by the control panel:

Table 3-5: Protection level

BALANCING	N.O.	N.C.	Single	Double	Double zone	Double zone with EOL
Infrared or Double technology	very low	low	medium (*)	high	medium	high
Magnetic contact	very low	low	medium		medium	high

3-4



(*) Single balancing provides the same level of protection as Double balancing, when the tamper contact of the detector is connected to a balanced zone on the control panel.

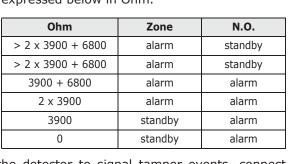


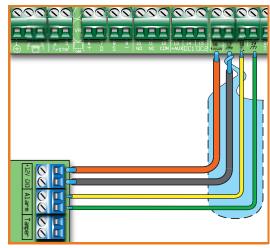
N.C./N.O. Balancing 3-5-1

For N.C. (normally closed) and N.O. balancing (normally open), it is possible to detect two distinct zone conditions:

- standby
- alarm

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.





If you wish the detector to signal tamper events, connect the detector "Tamper" terminal to a "24h" zone on the control panel.

Single balancing 3-5-2

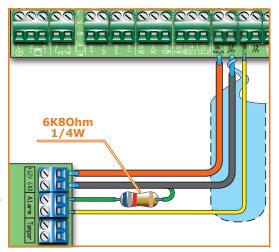
Single zones can discriminate 3 conditions on the entire terminal:

- standby
- alarm
- tamper (short-circuit)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ohm	Zone
> 6800	alarm
6800	standby
0	tamper

If you wish the detector to signal tamper events, connect the detector "Tamper" terminal to a "24h" zone on the control panel.



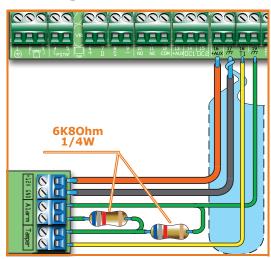
Double balancing 3-5-3

Double balancing discriminates 4 distinct conditions on the zone terminal:

- standby
- alarm
- tamper (short-circuit)
- tamper (wire cutting)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ohm	Zone
> 6800	tamper (wire cutting)
6800	alarm
6800 / 2	standby
0	tamper (short-circuit)





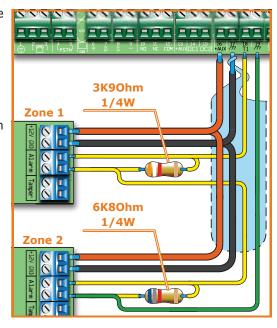
Double-Zone balancing 3-5-4

Double zones without EOL resistor can discriminate 5 conditions on the entire terminal:

- standby on both zones
- alarm on zone 1 and standby on zone 2
- alarm on zone 2 and standby on zone 1
- · alarm on both zones
- tamper (wire cutting)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ohm	Zone 1	Zone 2 (double)
> 3900 + 6800	tam	per
3900 + 6800	alarm	alarm
6800	standby	alarm
3900	alarm	standby
0	standby	standby



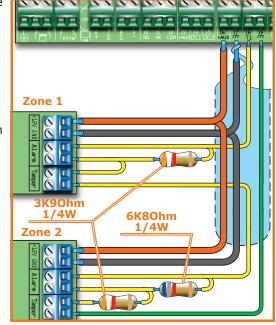
Double Zone balancing with EOL 3-5-5

Double zones with EOL resistors can discriminate 6 conditions on the entire terminal:

- standby on both zones
- alarm on zone 1 and standby on zone 2
- alarm on zone 2 and standby on zone 1
- alarm on both zones
- tamper (wire cutting)
- tamper (short-circuit)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ohm	Zone 1	Zone 2 (double)
> 2 x 3900 + 6800	tamper (wire cutting)	
> 2 x 3900 + 6800	alarm	alarm
3900 + 6800	standby	alarm
2 x 3900	alarm	standby
3900	standby	standby
0	tamper (short-circuit)	



Wiring and balancing rollerblind/ shock sensors

3-6

It is possible to choose between two types of balancing for Rollerblind and Shock sensors:

- Normally closed (N.C.)
- Single balancing (NC with EOL)

The following table compares the protection level of rollerblind/shock sensors using the two balancing options provided by the control panel.

Table 3-6: Protection level

BALANCING	N.C.	Single balancing (N.C. with EOL)
Rollerblind or Shock	very low	high



If the rollerblind or shock sensor is connected to a terminal of a wireless device, the connection cable must be less than 2 meters long.

The rollerblind sensor must generate pulses with a length of between 500µsec and 10msec.

3-6-1 Normally closed (N.C.)

In this case, the alarm condition is revealed exclusively by the number of pulses (pulse count) the control panel detects on the terminal.

If this balancing method is applied, the control panel will be unable to detect tamper, wire-cutting or short-circuit.

The discriminated conditions are:

- standby
- alarm

The alarm condition is triggered by the pulse count and sensitivity, in accordance with the programmed parameters (refer to paragraph 7-7 Zones - Detector type).

Single balancing (N.C. with EOL)

In this case, the discriminated conditions are:

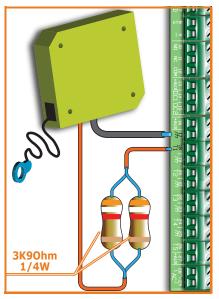
- standby
- alarm
- tamper (wire cutting)
- tamper (short-circuit)

For each of these, the control panel reads different resistance values on the terminal, expressed below in Ohm.

Ohm	Zone
> 3900 / 2	tamper (wire cut- ting)
3900 / 2	standby
0	tamper (short-cir- cuit)

The alarm condition is triggered by the number of pulses and sensitivity, in accordance with the programmed parameters (refer to paragraph 7-7 Zones - Rollerblind/Shock).

3-6-2

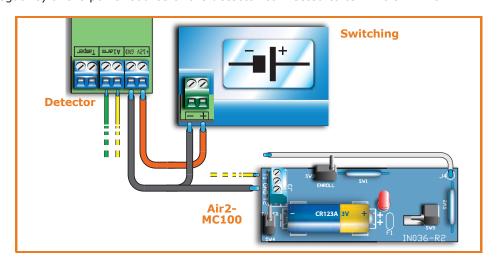


Connecting wireless detectors

For the connection and deployment of wireless detectors refer to the installation manual of the Air2-BS200 transceiver.

For the connection and balancing of detectors connected to terminals "T1" and "T2" of the Air2-MC100 device, refer to paragraphs 3-5-1, 3-5-2, 3-5-3, 3-6-1 and 3-6-2.

It is necessary for the "GND" terminal of the Air2-MC100 device to be connected to GND (Negative) of the power source of the detector connected to terminals "T1" or "T2".





Learn zone balancing

3-8



3-9-2

Patent pending

Once you have completed the wiring and configured the balancing of all the zones, you can instruct the control panel to save all the related parameters automatically, by activating the Learn zone bal. option (refer to paragraph 7-25 Default settings, Learn zone bal.).

Connecting the outputs

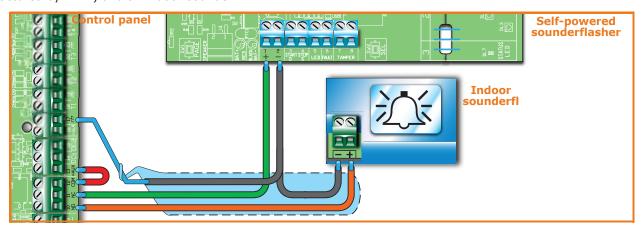
It is possible to set up the outputs to activate in response to the events the control panel manages.

For the connection of the outputs to terminals "T1" and "T2" of the Air2-MC100 device, refer to the Air2-BS200 Installation Guide.

Connecting the sounders 3-9-1

In the event of intrusion alarm, the control panel activates the output which is connected to the audible/visual signalling devices. The relay output on the control panel motherboard is the alarm output which is most commonly used to drive a self-powered sounder.

The following wiring diagram shows the connection of a self-powered sounder (IVY manufactured by INIM) and an indoor sounder.

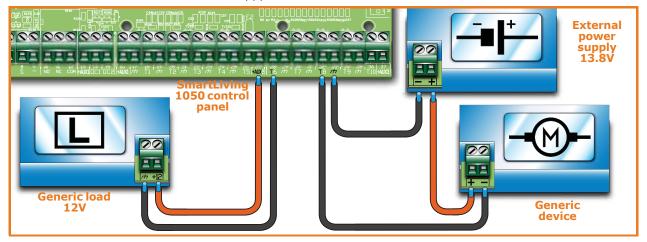


Connection open-collector outputs

With the exception of the relay output, all the control panel and Flex5/P and Flex5/U outputs are "open collector" outputs:

- **OC1** and **OC2** are open-collector outputs that sink maximum currents in accordance with the *Table 2-2: Control panels electrical and mechanical features*.
- All the terminals configurable as outputs are open-collector outputs that sink a maximum current of 150mA.

Below is a diagram illustrating a series of typical connections for the activation of a load when a Normally Open output closes to GND (\nearrow).



Installing add-on boards

3-10

AUXREL32 3-10-1

If you intend installing this board, work carefully through the following steps.

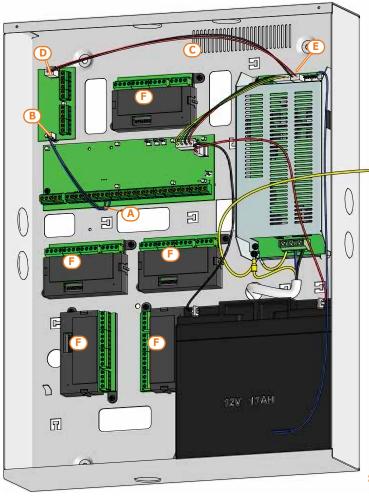
- 1. Disconnect the primary power supply to the control (230V~) and the backup battery.
- 2. Insert the plastic supports into their respective locations (*Table 2-6: Control panels description of parts, M*) on the back of the metal enclosure.
- 3. Position the board holes on the supports and push the board towards the back of the enclosure until it locks into position.
- 4. Insert the cable [A] into the connector [B].
- 5. Connect the two free wires of the cable [A] to terminals 14 (OC1) and 15 (OC2) on the control panel motherboard. Ensure that OC1 and OC2 on the control panel are appropriately connected (*Table 2-43: AUXREL32 description of parts, C*).
- 6. Connect the wire [C] to the connector [D] and to the 2 free pins [E] of the connector on the switching power-supply, as shown in the figure.

Flex5/U 3-10-2

The metal enclosures of SmartLiving 1050L, 10100L, 1050L/G3 e 10100L/G3 control panels are capable of housing two Flex5/U [F] expansion boards (optional).

If you intend installing this type of board, work carefully through the following steps.

- 1. Disconnect the primary power supply to the control (230V~) and the backup battery.
- 2. Secure the plastic enclosure of the Flex5/U to the backplate of the control panel (*Table 2-6: Control panels description of parts, N*).
- 3. Connect it to BUS line as described in paragraph 3-2-1 The I-BUS line wiring.
- 4. Address it as described in paragraph 3-3-4 Addressing FLEX5 expansion boards.
- 5. Power up the control panel by reconnecting the mains power (230V~) and backup battery.



SmartLiving 10100L



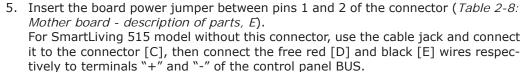
SmartLAN 3-10-3

The SmartLAN board, available with SmartLAN/G and SmartLAN/SI versions, allows SmartLiving control panels to extend their connectivity to Ethernet and Internet networks.

The operating capacity of the SmartLAN board depends on the proper configuration of the networks it is connected to. Therefore, if you are installing a SmartLAN board, it is necessary to contact the network administrator in order to configure it correctly.

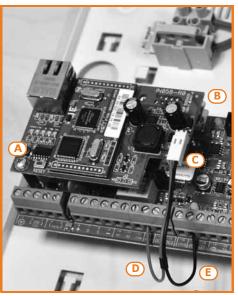
The figure opposite shows the SmartLAN/SI board mounted inside the box. If you intend installing this board, work carefully through the following steps.

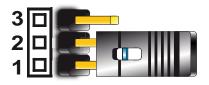
- 1. Disconnect the primary power supply to the control (230V~) and the backup battery.
- 2. Remove the earth connection screw [A] (*Table 2-6: Control panels description of parts, G*) from its location and replace it with the metal spacer (included).
- 3. Align the screw location on the board with the support and serial connector on the backplate [B], with the connector on the SmartLiving board (*Table 2-8: Mother board description of parts, I*).
- 4. Fasten the screw [A] on the support.



6. Power up the control panel by reconnecting the mains power (230V~) and backup battery.

It is important to note that the e-mail service does not guarantee delivery time of e-mails and their attachments nor even their final delivery.





Note

IP and Internet Connectivity 3-11 Configuring an IP network 3-11-1

Minimum configuration requirements:

- 1 router/modem connected to the Internet. The router/modem must be "port forwarding" capable in order to route external connections.
- 1 SmartLAN connected to the router/modem.

In addition, for programming purposes, a **SmartLeague** equipped PC must be linked to the SmartLAN (point to point connection with crossed Ethernet cable or via router connection).

A good knowledge of networking and TCP/IP protocol is required during the SmartLAN board configuration and the Internet connection phases.

The IP address must uniquely identify each peripheral device connected to a network such as, for example, each computer connected to the company network or directly to the Internet.

The IP address of the SmartLAN is a "static" address and cannot be assigned automatically. You can assign the IP address, set at default as **192.168.1.92**, via the SmartLAN programming page in the SmartLeague software programme. The PC used for the initial programming of the SmartLAN must have an IP address of the same address class **192.168.1.xxx** (for example, 192.168.1.123).

Successively, it will be possible to change the IP address of the SmartLAN, therefore, it will be the task of the network administrator to supply one suitable for the requirements and potential of the configured network.

This mask specifies which address class can communicate with the SmartLAN board and, consequently, which peripherals to connect to.

This parameter, which must be requested from the network administrator (255.255.255.0 at default), allows the SmartLAN to reach all the peripherals with address class 192.168.1.xxx.

This is the identifier of a service which may have a single peripheral connected to the network. SmartLAN uses two TCP/IP ports:

IP ADDRESS

SUBNET MASK

TCP/IP PORT

Installation

47



- The port reserved for access to the web server. Set at 80 at default.
- The Programming port (up/downloading). Set at 5004 at default.

The gateway is the access point which each peripheral connected in the network uses to reach the Internet. In the case of a minimum configuration, the gateway is the router.

GATEWAY

The parameter to be configured is the IP address of the gateway and must belong to the IP address class of the internal network (for example, 192.168.1.1).

This is the server used for the resolution of Internet names in IP addresses (for example, it translates www.google.com in 209.85.129.99). The parameter to be configured is the IP address of the DNS server, depends on the network connection provider (Telecom, Vodafone, etc.) and therefore must be requested from the network administrator.

DNS

This is a protocol for HTTPS connections. The security of the connection with the computer is guaranteed by integrated cryptography. Secure connection of mobiledevices is guaranteed by SSL protocol

SSL

For a secure HTTPS connection, users must connect to the SmartLAN/G using the SSL port (443 at default) or through the programmed one.

- Default SSL port (443): https://192.168.1.92
- Customized SSL port (xyz): https://192.168.1.92:xyz

3-11-2 Configuring a router

Remote access to the SmartLAN requires knowledge of the public IP address of the router, assigned by the provider (Telecom, Vodafone, etc.) for Internet access. This address can be either static or dynamic, thus conditioning remote access to the router:

- Connection to a dynamic public IP address
 - The provider may re-assign a public IP address in either a temporized manner or at each router connection, thus modifying it. This complicates remote access to the router. In order to resolve this problem, many routers have access to a dynamic DNS service for the association of dynamic IP addresses to host names (for example www.dyndns.com). It will be necessary to register a "dynamic DNS host" and set the parameters provided by the ISP (for example, user, password, domain, etc.) on the router. The router will update the dynamic IP address periodically with the registered static hostname (for example, http://casamia.dyndns.org). In this way it will be possible to have remote access to the router by means of a univocal name that is linked to the public IP address.
- Connection to a static public IP address

This type of connection links to a public IP address that is always the same. In this case, it is possible either to access the router directly through the fixed IP address, or purchase a domain (for example, www.casamia.com) that is capable or re-routing packets to the fixed IP address assigned by the connection provider. Once remote access to the router has been achieved, it is necessary to route the incoming connections to the SmartLAN. To distinguish these connections, use the previously programmed "IP Address" and "Port" parameters. During this programming phase, it is strongly recommended that you contact the network administrator in order to avoid configuration conflicts.

It is therefore necessary to access the router page reserved for "port forwarding" (sometimes called "virtual server") and set up the route directions of the two services the SmartLAN is enabled on.

- Web server port
 - communication protocol: TCP/IP
 - external port: 8080 (or any other free port provided by the network administrator)
 - •• internal port: 80 (or the one selected during the programming phase)
 - IP address: IP address of the SmartLAN
- Web server SSL port
 - communication protocol: TCP/IP
 - •• external port: 443 (or any other free port provided by the network administrator)
 - •• internal port: 443 (or the one selected during the programming phase)
 - • IP address: IP address of the SmartLAN
- Programming port
 - communication protocol: TCP/IP
 - •• external port: 5004 (or the one selected during the programming phase)
 - •• internal port: 5004 (or the one selected during the programming phase)
 - • IP address: IP address of the SmartLAN

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Remote access 3-11-3

To establish external communication with the SmartLAN/G web server via browser (Firefox, Opera, Internet Explorer, etc.), type in the configured public IP address of the router followed by the number of the external forwarding port, as follows:

- http://www.casamia.com:8080 (in the case of domain associated with static public IP)
- http://casamia.dyndns.org:8080 (in the case of registration with dyndns.org with dynamic public IP)

In order to allow remote communication with the SmartLAN, it is necessary to set the configuration on the SmartLeague (IP address of the router and external rerouting port).

VIA SMARTLEAGUE

For remote access to the SmartLAN/G web server, type on the browser on your mobile phone the public IP address of the configured router followed by the number of the SSL web port, as follows:

VIA MOBILE DEVICES

- http://www.casamia.com:443 (in the case of domain associated with static public IP)
- http://casamia.dyndns.org:443 (in the case of registration with dyndns.org with dynamic public IP)

Connection test 3-11-4

The SmartLiving control panel can carry out an IP network connection test by making link connection attempts to a precise IP address.

The SmartLeague software programme will allow you to set the test parameters. These parameters can be found in the "Programming - IP connection test parameters" section relating to the "SmartLiving system":

- IP Address, Port Address IPv4 and port where the connection attempts are to be directed.
- Interval an intervening period (expressed in seconds) between the test connections. If set at "0" the connection test will be disabled
- Number of attempts number of connection attempts made during each test

If the connection test is enabled and fails (i.e. the control panel is unable to achieve an IP connection during the programmed number of attempts), the "IP conn. loss" event will be generated.



Chapter 4

FIRST POWER UP

On first power up, the control panel initializes the parameters at default (factory settings).

In addition, the control panel automatically enrolls all the peripherals it "sees" on the I-BUS (automatic addressing phase). The default address of all expansions, keypads and readers is address 1, therefore, if the system is equipped with more than one of each type of device, the automatic enrolling operation will be erroneous. In order to allow the system to perform an accurate auto-enrolling operation on "First power-up", work carefully through the following steps.

The default address of all peripherals (keypads, readers and expansions) is set at address 1.

Note

When wiring the system, ensure that no power from the mains (230V~) or backup battery reaches the control panel or any of its peripherals.

ATTENTION!

- 1. Attach the control panel to the wall.
- 2. Complete the wiring of the peripherals to the BUS.
- 3. Connect the BUS wires to the control panel.
- 4. Complete the wiring and balancing of the system detectors.
- 5. Connect the detectors to the terminals.
- 6. Connect the outputs to the control panel and peripheral terminals.
- 7. Connect the control panel to the telephone line.
- 8. Connect the SmartLogos30M board to the appropriate connector on the control panel motherboard.
- 9. Insert the maintenance jumper in the "SERV" position.
- 10. Connect the primary power source (230V~).
- 11. Connect the backup battery. The first line of the display of each keypad in the system will show the 'Maintenance' message and the keypad address at default. On first power up (first startup), all the keypads will show "K01" (refer to paragraph 3-1-9 Maintenance status).

If several keypads are connected to the I-BUS, their displays may be blank. If this occurs, disregard this aspect and go directly to the next step.

Note

- 12. Address the peripherals (refer to *paragraph 3-3 Addressing the peripherals*). At least one keypad must be assigned to address 1. Using keypad 1, initialize the addressing phase for nBy/S and nBy/X readers (refer to *paragraph 3-3-5 Addressing nBy readers*).
- 13. If useful, from the Installer menu, start the step-by-step guided "Wizard programming" procedure which allows the programming of all the main parameters of the system (refer to paragraph 7-4 Fast programming from the keypad (Wizard)).
 - This point skips the successive points and ends at 17, otherwise, works through the following steps.
- 14. From the installer menu, start the self-enrolling process of zone balancing (refer to paragraph 7-25 Default settings, SelfEnrol.zone bal).
- 15. If necessary, specify the expansion terminals simulated by the Air2-BS200 transceiver (refer to *paragraph 7-6 Terminals*) as "Wireless" terminals.
- 16. If it is necessary to set up the voice and digital dialler functions and/or edit the contact numbers (refer to *paragraph 7-10 Telephone*).
- 17. Remove the jumper from the "SERV" position and place it in the "RUN" position.

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Chapter 5

INSTALLATION PROJECT VIA THE SMARTLEAGUE

The especially designed SmartLiving system can be programmed from a keypad or via PC. All programming functions can be accessed through the software programme. You will need:

- A computer (to be connected to the control panel)
- The SmartLeague software program

The SmartLeague software program

5-1

The SmartLeague software program allows the installer to prepare the majority of the parameters/settings without actually being connected to the control panel.

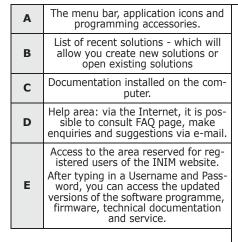
However, connection is required during the upload and download operations. The type of connection depends on the method used for read/write operations to and from the control panel:

- RS232 serial port of the PC
- LAN (combined with the use of a SmartLAN/SI or SmartLAN/G board)
- Modem
- Inim Cloud

The programming parameters of an installation constitute the "solution". The solution can be saved to the memory of the SmartLeague software programme, either for future use or as a "model" for other installations.

The homepage of the SmartLeague software program is common to all the programmable devices and is always active, even during the programming session (in the form of a template):

Table 5-1: SmartLeague - homepage







Using the software program

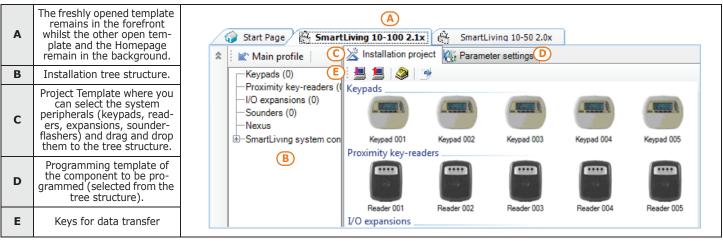
5-2

Each project, from the most uncomplicated to the most complex of systems, is represented by a solution, which contains the programming parameters and installation structure.

A solution is dedicated to a specific type of apparatus and has its own programming interface. You can work on several solutions simultaneously, even if they involve different types of apparatus. Each solution has a template, located next to the "Homepage", which can be viewed at all times. In this way it is possible to compare different solutions and even keep two solutions open, one real and one for test purposes (in order to verify the effects of programming).

When a solution opens, the SmartLeague software program presents the following interface:

Table 5-2: SmartLeague - solutions



A solution can be created or changed even without being connected to the apparatus. For example, you can plan the layout of an installation or set the options/parameters at your office and download the settings to the system at a later time.

In this case, you must programme:

- the Installer PIN via the "SmartLiving System" from the tree menu on the left. The PIN must be entered in the "Parameters settings - Installer code" section on the right.
- the Type of connection via the "Settings Application data" section (if you intend using the serial port or a LAN or GPRS connection); or press the key (if you intend using the SmartModem100).

For the specifications regarding the above-mentioned connections, refer to paragraph 3-11 IP and Internet Connectivity, the paragraph 7-29-5 GPRS Connections (Nexus/G only) or to the SmartModem100 Installation Manual.

Creating a project layout 5

The project layout section, in the SmartLeague software programme, allows you to configure the system (i.e. select the type and number of peripherals present).

You can either create a new solution or change an existing one. The existing solution can be either a project layout created through the SmartLeague application or a solution imported directly from a real system.

 If you wish to create a new system, go to the "Recent Solutions" section and select "New solution", then select the type of control panel and firmware version. If you wish to modify an existing system, go to the "Recent solutions" section and select "Open solution".

import the data from a real control panel by clicking on the \blacksquare key, which will upload the control panel data.

Select the type of peripheral you wish to configure from the "Project" template, and drag and drop it to the part of the tree menu concerned.

Double-click on the peripheral to add it to the configuration.

PROGRAMMI NG

FROM COMPUTER



To remove a component from the structure, select it and press CANC on the computer keyboard.

- To download the data to the control panel, click-on the !!! key. Downloading operations will:
- Block all system keypads.
- Broadcast the "PROGRAMMING" message to all the keypads.
- Force all the system keypads to standby status.
- Bring the call queue and events log to a temporary standstill, thus there will be no events saved to the log, no outputs activated and no outgoing calls.

When the downloading phase terminates, the control panel will complete the operations it usually carries out on exiting the Installer menu, as described in paragraph 7-2 Accessing the Installer menu.

During the read and write phases, ensure that the control panel partitions are disarmed. This condition is not necessary when you are viewing the events log.

Note

The SmartLeague software programme provides data transfer buttons (and) for read/write operations relating to all programming in progress, these buttons are located under the Menu bar. It also provides buttons for read/write operations relating to the project layout or open programming session, these buttons are located in the top left-hand corner of the page concerned.

4. Additionally, the SmartLeague software program provides a button ** that allows you to create a file which interfaces with supervisory software such as Inim's SmartLook or WinMag (ask you dealer for details).



Chapter 6

INIM CLOUD



The INIM Electronics Cloud service provides SmartLiving users with a further mode of intrusion panel management via Internet.

The connection of control panels to the Cloud service is achieved via a web interface (the AlienMobile+ App or any browser) without any need to configure the network on which the control panel is installed. In particular, it is not necessary to program a router to perform port-forwarding and the like in order to reach the control panel.

Intervention with regard programming relating to network operations is not required on SmartLAN cards, since these cards are programmed by default with DHCP enabled (option to automatically assign an IP address to the devices on the network).

To use the Cloud Service as an installer, you must create your own account at www.inimcloud.com and follow the guided registration procedure.

After correct registration, the installer will receive a confirmation email and an email with an "Installer ID" (Cloud installer 8 digit code), by means of which the installer can carry out operations that will enable Cloud access on already installed systems.

Once logged in, the installer will have access to a customized web interface which has all the tools to:

- register new control panels
- associate or cancel the customer users with the control panels
- supervise the registered control panels
- manage the installer profile

User levels

6-1

The Inim Cloud service provides three different user levels, relating to a single control panel. The ratings may be different in your profile, depending on the control panel:

- **Supervisor**, corresponds to the installer.
- **Admin**, corresponds to the first user who registers the control panel to their cloud profile and who can, through a web interface, supervise the system. And who, by accessing their profile, can delete the control panel from their own account or that of other users. Furthermore, can pass the title of "Admin" to another user.
- **User**, is a user who has registered the control panel to their cloud profile and who can, through a web interface, supervise the system or delete the control panel from their own account.

The "owner" attribute allows a user to delete a control panel from the supervisor's account. It can be assigned both the installer and the end user by the installer during registration of the control panel to cloud.

Therefore, if "owner" is the user, they can enable/disable other users and the installer who supervises the system.

If, instead, "owner" is the installer, they can enable/disable themselves and the "Admin" user.

If an installer "owner" disconnects a control panel, disabling themselves, it will no longer be accessible in the cloud for each user.

OWNERSHIP

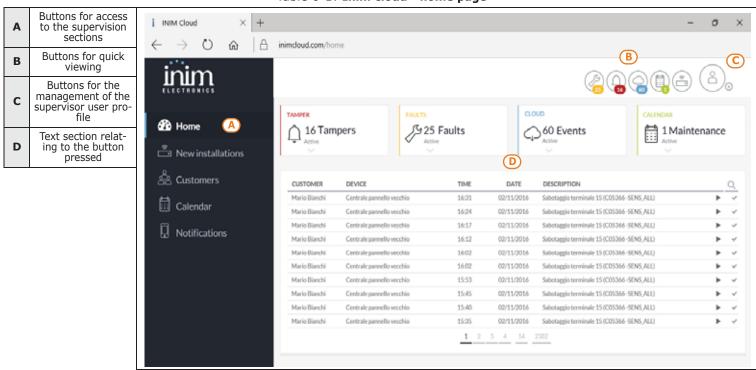
Note



Web interface 6-

Following is the description of the home page; the presence of each of the following elements described depends on the activated functions and the page you are accessing:

Table 6-1: Inim cloud - home page



Present at all times in the upper right corner are the buttons for viewing and editing the profile of the user and control panel registered to the cloud.

Editing can be done after data has been unlocked by clicking on the respective icon



Buttons for quick viewing 6-2-1

The Quick View (*Table 6-1: Inim cloud - home page, B*) buttons are always present and show (in overlay) the number of ongoing events or for events which viewing has not been confirmed:

- The button opens a window listing the last 4 fault events.
- The button opens a window listing the last 4 alarm or tamper events.
- The button opens a window listing the last 4 control panel and cloud events.
- The button opens a window with a list of the first 4 upcoming maintenance events scheduled in the "Calendar" section.

 If required this button shows (overlaid) the number of the events that are upcoming on the day in which you consult the cloud.
- The button opens a window listing the control panels registered by the installer to the cloud but not yet assigned to any account. If required this button shows (overlaid) the number of "new" control panels.

Sections for the supervision 6-2-2

The "home page" section is divided in two parts:

 The upper part, with four sections showing the number of events in progress or for which viewing has not been confirmed, grouped in categories:

- Alarm and tamper events
- Fault events
- Generic events of the control panels and cloud
- Maintenance events

HOME



Inim Cloud 55



• The lower part, with a list of all the events of all the registered control panels and the cloud.

By clicking on an event you can view more details. The list can be filtered in accordance with the category of events by clicking on one of the 4 boxes in the upper part.

The "New Installations" sections shows the list of control panels registered by the installer to the cloud service and not yet associated with any customer (*paragraph 6-3 Control panel registration*).

NEW INSTALLATIONS



The "Customers" section allows you to manage customers (users) that have been assigned to the registered control panels and also to view the systems.

It displays a list of customers and the respective control panels for each of these.

new customer by entering the respective data. It is possible to select a single customer or a single system from the list.

Selecting an customer opens a section with a break-down on the assigned control panel. This section allows you to:

- change the personal details of the customer
- request or transfer the ownership of the control panel
- set the password request (OTP) during user registration
- unregister yourself (as supervisor) or the "Admin" user from the control panel

At the bottom of this section, the button allows you to add a new control panel.

Selecting a single control panel allows you to view an interface identical to that of the user.

This section allows you to view all the system components but does not allow you to carry out any activations.

ations.

The "Calendar" section allows you to manage events such as reminder events ("Maintenance").

The section shows a calendar, viewable in different modes (daily, weekly, monthly, etc.) from which you can select a date/time.

Once selected, a section activates on the right for the programming of the maintenance event schedule and the respective parameters.

Activating the "Notify" option allows you to set the interval that must pass before notification of the event is sent to the addressees (set in the "Notifications section").

The "Notifications" section allows you to set up the recipients of the event notifications relating to the registered control panels.

The events are grouped into 4 categories:

- **-** tamper
- fault
- programming
- maintenance

There is a list of notification recipients for each type of event and it is possible to add others via the hutton by specifying:

- •• name
- •• phone number for the voice call
- • phone number for the SMS message
- •• email address
- •• enable the "push" notification for AlienMobile+ users

CUSTOMERS



Note

CALENDAR



NOTIFICATIONS



Control panel registration

The registration of a control panel is an operation that allows its accessibility to all Inim Cloud service users.

Therefore, it is necessary that the installer carries out the initial registration, so that the users can add the registered control panel afterwards to their own accounts.

1. Go to the "Cloud Registrat." section:

56 Inim Cloud



Via Keypad

Type-in Code (Installer) **OK**, PROGRAMMING User functions **OK**, Activations **OK**, Cloud enrollment.

Via Alien keypad

Go to the "Settings" section by pressing the button, enter the user code and then access the "Installer" section, enter the installer code to access the "User Functions - Activations - Cloud enrollment".

- 2. Enter the 8-digit ID-installer number contained in the confirmation email received during registration to the Cloud as an installer.
- The control panel will ask you to specify the owner using the "Inst. Ownership" option
 - If the option is selected, the control panel is the ownership of the installer, otherwise it is the ownership of the "Admin" user.
- 4. After setting the above-mentioned option and pressing "OK", the control panel will carry out the registration to Cloud and the keypad will display the string "WAIT"".

If the control panel date/time differs by more than 15 minutes from the exact date/time, the registration process may result negative .

Note

- 5. The keypad will show the result of the procedure by displaying one of the following messages:
- "Account created!": the control panel has been successfully registered to Cloud
- "Communicat.Error": generic communication error.

The possible causes may be:

- no Internet connection
- date of manufacture of the control panel is earlier than dd/mm/yyyy
- date/time of control panel different, ahead or behind the exact date/time by more than 15 minutes
- "Already enrolled": the control panel is already registered to Cloud
- "Bad ID": the entered Installer ID code is wrong
- "Panel notEnabled": the control panel cannot be registered to Cloud

Control panel connection 6-4

The connection to the Inim Cloud service is available for all control panels with a firmware version not lower than 6.03.

In order to connect the control panel you must have one of the following devices:

- SmartLAN/G, with a firmware version not lower than 6.08
- SmartLAN/SI, with a firmware version not lower than 5.00
- Nexus/G, with a firmware version not lower than 4.00

If the connection to the Cloud is achieved via Nexus/G, the use of this will be exclusively for communication with the Cloud and therefore it cannot perform any other operations which are normally available (voice calls, send SMS, respond to commands sent via SMS).

Note

In order to assist the installer when programming a SmartLiving control panel registered to the Inim Cloud service, the SmartLeague software provides an option that, if enabled, performs a preset of some of the control panel parameters that would otherwise have to be programmed individually.

lia DC

Start the SmartLeague solution for the control panel, select "SmartLiving System" from the tree menu on the left, then go to the "Programming" template on the right. There you will find the "Cloud Mode" option.

If activated, the software will perform the following default programming:

- The "Inim Cloud" will be assigned to telephone number 12 which will no longer be editable.
- A group of events of various types will be setup and must be communicated to the Cloud when they occur, these events will no longer be editable

"CLOUD MODE"

Inim Cloud 57



Chapter 7

OPTIONS AND PROGRAMMING METHODS

Introduction

7-1

The options, functions and values of the SmartLiving control panel must be programmed by qualified persons only. The SmartLiving control panel is programmed at the factory with almost ready-to-go settings ("default settings") which require only minor changes during the system customization phase.

For example, all the zones, keypads and readers are assigned to (belong to) partition 1, alarm and tamper events related to partition 1 activate the relay output which is monostable set at 3 minutes (Monostable time = 3 minutes), etc.

All the parameters and programming data can be input via keypad or computer (equipped with the SmartLeague software programme) with the following limitations:

- From the keypad you cannot program:
 - Timer exceptions
 - • Input calibration
 - Sounderflasher tone
 - BUS speed
 - Description of the "Emergency keys"
 - Parameters relating to the SmartLAN board
 - Parameters relating to the Nexus GSM dialer
 - Parameters relating to the I-BUS Ivy-B
 - •• Programmable events
 - Shortcut on event
 - Output scenarios
 - Configuration of cameras
 - Configuration of graphic maps
- Via the SmartLeague software you cannot program:
 - DTMF sensitivity
 - The second Installer code
 - The Installer code PINs
 - .. The shortcut descriptions

The following chapter describes the programming flow of the system data in the order it appears in the Installer menu on the keypad. The description of both programming methods (from keypad; via PC) are provided.

Accessing the Installer menu

7-2

If you wish to program the system via the installer menu from a keypad and thus upload/download the control panel parameters, you must:

- 1. Disarm all the control panel partitions.
- 2. Type-in a valid PIN (installer code) on the keypad then press **OK**. If an Alien keypad is being used, access the "Settings" section by tapping the
 - button, type in the user code and access the "Installer section", then enter the Installer code.

The PIN is "9999" at default.

3. The system will allow access to installer menu only after the entry of a valid PIN.

Once access to the installer menu is achieved, the system will:



- Block all system keypads except the one you are using.
- Broadcast the "PROGRAMMING" message to all the keypads.
- Force all the system keypads to standby status.
- Bring the call queue and events log to a temporary standstill, thus there will be no events saved to the log, no outputs activated and no outgoing calls.

To exit the installer menu, press (\circ) and when the system asks: "EXIT? OK = YES", press (\circ) .

Once you exit the installer menu, the control panel will:

- Apply all the new settings and values.
- Restore the I-BUS, reprogramme and make all the peripherals fully operational.
- Restore the call queue, and events log to normal operations.

Programming via the SmartLeague software

Certain parameters (for example, relating to zones and outputs) can be programmed only after the project layout of the system has been completed (refer to paragraph 5-3 Creating a project layout).

- 1. Go to the "Recent solutions" section and either create a new solution or open an existing solution, or import the programming data of a real control panel by clicking on the key to upload the control panel data.
- 2. Select the device you wish to configure from the tree menu on the left.
- 3. Set the parameters in the "Parameters settings" template on the right.
- 4. To download the data to the control panel, click-on the \blacksquare key.

The limitations described in *paragraph 5-3 Creating a project layout* apply during them reading and writing phases.

This manual is limited solely to instructions regarding navigation through the software and where to find the various parameters. For full instructions regarding the complete programming process refer to the SmartLeague Installation and Configuration manual,

Fast programming from the keypad (Wizard)

SmartLiving provides you (the installer) with a step-by-step guide to fast system programming via the Installer menu.

The guide consists of a series of questions you (the installer) must answer by means of the keypad keys. The questions must be answered one at a time in order to programme the required settings. This programming process does not cover all the control panel parameters, however, it allows you to program the basic parameters and functions which permit the system to operate at a basic level.

Starting the Wizard (fast programming process) does not delete any previous programming, however, it allows you to overwrite it where necessary.

1. Access the "Wizard" section.

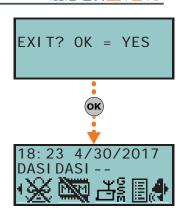
supplied with the software.

Type in the Code (Installer) ок, PROGRAMMING Wizard ок).

2. Answer the questions asked using keys and to select the field you wish to change and the number keys (1..., etc.) to edit the number.

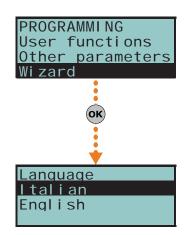
Use keys and to increase or decrease the number.

3. Press **OK** to save and continue.



Note

7-4





Panel options 7-5

The following options are provided by the control panel.

Table 7-1: Panel options

Option	If enabled	If disabled
- Spiron		The control panel will engage the telephone
Dial tone check	The control panel will engage the telephone line and check for the "dial tone", if present, the control panel will start dialing.	line, wait two seconds then will start dialing (whether the dial tone is present or not).
Pulse dialing	The control panel will dial using pulse tone.	The control panel will dial using touch tone (DTMF).
DTMF withoutCode	Allows access to the User Menu over-the-phone (during voice calls from the control panel) in accordance with the parameters and enablements of the last user code on the control panel (code 30, 50 or 100).	Allows access to the User Menu over-the-phone during voice calls from the control panel, only after entry of a valid user-code PIN by the recipient.
Line down signal	If a "Tel.Line down" event occurs, the control panel will flash the respective icon \blacksquare on the keypad displays.	The control panel will detect the "Tel.Line down" event, but it will not be revealed on the keypad displays.
Double call	The control panel will override the answerphone function.	
Call allVoxNums	If several voice calls - generated by the same event - are waiting in the outgoing call queue, the control panel will attempt to call all the expected numbers.	If several voice calls - generated by the same event - are waiting in the outgoing Call Queue, the control panel will send voice calls until just one ends successfully. Any other voice calls relating to the event in question will be cleared (deleted) automatically from the queue .
Call all TLVNums	The same as "Call all VOXNums" but valid for Alarm Receiving Centres.	
RefreshMnstblOut	Each event that triggers an already-activated monostable output will refresh (take back to zero) the programmed Monostable time.	Each event that triggers an already-activated monostable output will not refresh (take back to zero) the programmed Monostable time.
	Telephone number 15 in the phonebook is reserved for Teleservice (maintenance over-the-phone). If a user makes a request for Teleservice, the control panel will contact the user's number.	T
Num15 ForTeleserv	Note	Telephone number 15 in the phonebook can be dedicated to either voice or teleservice.
	If you wish the control panel to call an installer company number which uses an INIM modem, you must set "None" in the Telephone Number 15 Type field.	dedicated to either voice of teleservice.
Install.callback	 The control panel will enable the Teleservice function if: the installer calls the control panel the control panel detects the ring, picks up, recognizes the installer code and hangs up immediately the control panel calls the Teleservice number and allows access to the system 	
ReaderBuzzer OFF	No reader buzzers will emit audible signals during running entry time, exit time, output time or pre-arm time.	
Keypad lockout	If a wrong code is typed-in at a keypad more than 5 times in succession, the keypad will lock for 10 minutes and show the icon: Note If you reset the control panel or access programming while the keypad-	
	lockout time is running, it will refresh to zero and start again.	
View open zones	The keypad will show the descriptions of any open zones (zones which are not in standby status) when the partitions disarm. Any autobypassable open-zones will be shown in white on a black background.	
OpenZonesArmLock	The control panel will not arm the partition if it detects any open zones (zones which are not in standby status). If there are zones with the "Auto-bypassable" or "No-Unbypassable" attribute amongst the open-zones (refer to paragraph 7-7 Zones), they will be shown on the keypad as "Not ready". If the user goes ahead with the arming operation, these zones will be bypassed automatically and the partition will arm.	
DTMF sensitivity	The sensitivity of incoming DTMF tones is increased.	
BypassAlsoTamper	If a zone is bypassed (disabled), it will also be unable to generate terminal tamper.	If a zone is bypassed (disabled), it will be able to generate terminal tamper.
BypassVoiceCheck	The control panel will start the voice message 5 seconds after dialing the respective contact number.	The control panel will not start the voice message until it recognizes a voice at the other end of the line.



Table 7-1: Panel options

Ontion	Table 7-1: Panel options	TE dischied
Option	If enabled	If disabled The control panel will consider the voice call
Confirm with *	The control panel will consider the voice call successful when the call recipient presses $``*"$ on their telephone keypad.	The control panel will consider the voice call successful as soon as it starts the voice message.
NoUserTamp.reset	No user will be allowed to delete of the following events: terminal tamper control panel open-tamper control panel dislodgement-tamper peripheral tamper peripheral loss false key	
Encrypt data	The encryption of data over the Ethernet network will be enabled only for SmartLAN/SI communications. In this case, it is necessary to enable data encryption also when programming the SmartLAN/SI. This programming process is possible only via the SmartLeague software programme.	
Instant restoral	The restoral of the magnetic reed sensor in Air2-MC100 and Air2-MC200 wireless detectors will be signaled instantly.	Reset of the magnetic reed sensor in wireless detectors will be signalled with a delay of up to 10 seconds (maximum).
Teleserv. hidden	The 👥 symbol will not be shown on the keypad display.	If Teleservice is enabled, the *** symbol will be shown on the keypad display.
LockInstall.Code	After hard reset (refer to <i>paragraph 7-25 Default settings</i>), all the control panel parameters with the exception of the installer PIN will reset to the factory default settings.	After hard reset (refer to), all the control panel parameters including the installer PIN will reset to the factory default settings (installer PIN default is 9999).
50131ReaderLedOFF	If there are no keys present at the reader, the LEDs of nBy readers will be Off. If a key is waved across the reader, the status will be indicated on the LEDs for 30 seconds before switching Off again. During this 30 second phase, the user can hold the key in the vicinity of the reader and select the desired shortcut indicated by LEDs.	The reader LEDs indicate the related status.
50131StatHidden	The status of the partitions will be hidden. If a valid code is entered at a keypad, the real-time status will be indicated on the keypad concerned for 30 seconds. If the partitions are armed, the status of the system will be hidden from non-authorized users. Red keypad LED Off Yellow keypad LED Off Green keypad LED On solid Status icons not present Alarm and Tamper memory hidden If a particular event occurs more than 5 times when the partitions are armed, it will not be signaled as having occurred more than 5 times. This is due to the limitation placed on the counter of each event. The counters will reset to zero each time all the partitions are disarmed. If the partitions are DISARMED: The LEDs will function normally. Status icons present Alarm and Tamper memory visible	The keypad will show the real-time status of the system at all times, regardless of the status of its partitions.
50131IconsHidden	If partitions are armed, the status icons will not be shown on the second line on the keypad, thus non-authorized users will be unable to view the respective conditions on the system. If a valid code is entered at a keypad, the status of the icons will be shown for 30 seconds. The keypad will show the real-time status of the icons when all the keypad partitions are disarmed.	The keypad will show the real-time status of the icons at all times, regardless of the status of its partitions.
50131AlarDelayed	If an instant-zone alarm occurs on a partition while entry time is running, the associated actions (calls, output activation, save to log, etc.) will not be generated until 30 seconds after the expiry of the entry time. If the partition (or partitions) are disarmed during this period, the associated actions will not be generated, however, the keypads will indicate the violation of the instant zone.	If an instant-zone alarm occurs on a partition while entry time is running, the associated actions (calls, output activation, save to log, etc.) will be activated instantly.
50131WarnLedMem	If the control panel detects a fault, the yellow LED on the keypads will go On and will remain On even after the fault clears. To switch the yellow LED Off, clear all activating causes and reset the partition.	If the control panel detects a fault, the yellow LED on the keypads will go On and will go Off automatically when the fault clears.
DayLightSav.time	The control panel clock will go back automatically one hour at $03:00$ last Sunday in October, and it will go forwards automatically one hour at $02:00$ last Sunday in March.	No automatic clock forward/back operations.
NoStrings SiaProt	The descriptive strings will not be sent in SIA reporting format.	The descriptive strings will be sent in SIA reporting format.
Call all SIA-IP	If several SIA-IP calls - generated by the same event - are waiting in the outgoing call queue, the control panel will attempt to call all the specified numbers.	If several SIA-IP calls - generated by the same event - are waiting in the outgoing Call Queue, the control panel will send voice calls until just one ends successfully.



Table 7-1: Panel options

Table 7-1: Panel options					
Option	If enabled	If disabled			
CONT-IDInversion	Partition arming events using CONTACT-ID reporting format will send the "New event/Event activation" code when the partition is armed and the "Event ended/Event restore" when the partition is disarmed.	Partition arming events using CONTACT-ID reporting format will send the "New event/Event activation" code when the partition is disarmed and the "Event ended/Event restore" when the partition is armed.			
Dust event enab.	Enables management of the "Detector dusty" event. The "Output fault" and "Detector dusty" events share the same actions. Therefore, if either of these events occur, the system will send the calls and activate the outputs associated with the "Output fault" event. The events log provides the proper distinction between these two events: in the event of an "Output fault", the system will provide the description of the output in fault status in the event of an "Detector dusty", the system will provide the description of the detector that generated the event	The control panel cannot detect "Detector dusty" status. In the event of an "Output fault", the system will function normally.			
Maintenance	You can start the maintenance session from the keypad without opening the control panel or moving the jumper (refer to <i>Table 2-8: Mother board description of parts, G</i>). After exiting the Installer menu, you can operate on the system in the same way as when the control panel is placed in maintenance mode by means of the jumper. You must disable this option if you wish to put the control panel in "RUN" mode.	You can also put the control panel in maintenance mode by means of the jumper (refer to <i>Table 2-8: Mother board - description of parts, G</i>).			
Show scenario	The left side of the second line on the keypad displays shows the description of the active scenario.	The left side of the second line on the keypad displays shows letters relating to the armed/unarmed status of the partitions which the keypad controls.			
Tamper siren	The control panel will generate a "Sound.flash.Tamp" event if the passive cone is disconnected from the relay (wire cutting).				
Squawk on arming	This option activates the sounder for a brief period during partition stay/ away arming and disarming operations in order to indicate that these operations have been executed successfully.				
50131 Grade 3	 The control panel respects Grade 3 EN50131: only the installer code can be used to delete fault memories the readers lock for 10 minutes after 5 consecutive attempts to use a false key the keypads lock for 10 minutes after 5 consecutive attempts to key in a false code (valid only when the "Lock keypad" option is enabled) bypassed zones are automatically unbypassed when the system disarms in the presence of ongoing faults and lost peripherals, arming operations will require installer code entry Note In order to comply completely with Grade 3 of Normative 50131, also the 				
Alarm on keypads	other options relative to Grade 2 must be activated (refer to <i>Chapter 8 - Compliance with rules in force</i>). All the keypads will emit an audible signal in the event of an alarm or tamper				
Alum on Reypaus	on any of the partitions they are associated with. At the occurrence of each event, the sequence of phone calls programmed	will emit an audible signal.			
	for that specific event stops after the first successful call.	Each event generates all the calls set by			
SingleCallEachEv	Any option relating to sending calls to all numbers have the priority over of this option.	programming.			
Disab.GPRS fault	The control panel will not signal GPRS connection faults or problems.	Each fault or problem with the GPRS service will be signalled.			
Disab.Tel.Disarm	The control panel will not carry out the calls programmed for disarm events when there is no active alarm or alarm memory present.	The control panel will carry out the calls programmed for disarm events.			
NoStrings SIA-IP	Calls to SIA-IP type numbers will be sent without being combined with description strings (e.g. partition, zone, etc.).	Calls to SIA-IP type numbers will be sent complete with description strings (e.g. partition, zone, etc.).			
115200 BPS	Serial port speed at 115200 bps.	Serial port speed at 57600 bps.			
UTC timeOnSIA-IP	Calls to SIA-IP type numbers will contain the date and time in "UTC" format (Coordinated Universal Time).	Calls to SIA-IP type numbers will contain the date and time in local format			
No Nexus on Cloud	The Nexus will not be enabled to access Cloud but will continue to perform all its other functions.	The Nexus will be enabled to operate over cloud, but will be unable to carry out its other functions.			



Via Keypad

1. Access the "Programming Panel options" section.

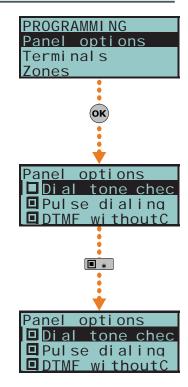
Type-in Code (Installer PIN) (OK), PROGRAMMING Panel options (OK).

- 2. Use keys and to select the parameter you wish to enable/disable.
- 3. Press \blacksquare * to enable the selected option, or \blacksquare * to disable it.
- 4. Press **OK** to exit and save the configuration.

Via PC

Table 7-2: Options - via SmartLeague software programme

0 11	D 1 (1)		
Option	Part of the system	Template - section	
Dial tone check Pulse dialing		Parameters settings - Telephone line parameters	
DTMF withoutCode		Parameters settings - Telephone dialer parameters	
Line down signal	SmartLiving System - Telephone	Parameters settings - Telephone line parameters	
Double call	SmartLiving System - Telephone	Parameters settings - Telephone line parameters	
Call allVoxNums		Parameters settings - Telephone dialer parameters	
Call all TLVNums		Parameters settings - Telephone dialer parameters	
RefreshMnstblOut	SmartLiving System	Parameters settings - Control panel parameters	
Num15 ForTeleserv	SmartLiving System - Telephone	Parameters settings - Teleservice parameters	
Install.callback	SmartEiving System Telephone		
ReaderBuzzer OFF	Proximity readers	Parameters settings - Reader parameters	
Keypad lockout	Keypads	Parameters settings - Keypad parameters	
View open zones	,,		
OpenZonesArmLock	SmartLiving System	Parameters settings - Control panel parameters	
DTMF sensitivity	SmartLiving System - Telephone	Parameters settings - Telephone dialer parameters	
BypassAlsoTamper	SmartLiving System	Parameters settings - Control panel parameters	
BypassVoiceCheck Confirm with *	SmartLiving System - Telephone	Parameters settings - Telephone dialer parame- ters	
NoUserTamp.reset	SmartLiving System	Parameters settings - Control panel parameters	
Encrypt data	/	Menu bar - Settings - Application data - Commu- nication type - SmartLAN/SI	
Instant restoral			
Teleserv. hidden	†	Parameters settings - Control panel parameters	
LockInstall.Code			
50131ReaderLedOFF			
50131StatHidden	SmartLiving System	Parameters settings - 50131 Parameters	
50131IconsHidden			
50131AlarDelayed			
50131WarnLedMem			
DayLightSav.time		Parameters settings - Control panel parameters	
NoStrings SiaProt		Parameters settings - Telephone dialer parame-	
Call all SIA-IP	SmartLiving System - Telephone	ters	
CONT-IDInversion			
Dust event enab.	SmartLiving System	Parameters settings - Control panel parameters	
Maintenance	Keypads	Parameters settings - Keypad parameters	
Show scenario Tamper siren	Reypaus	raiameters settings - Keypau parameters	
Squawk on arming		Parameters settings - Control panel parameters	
50131, Grade 3	SmartLiving System	Parameters settings - 50131 Parameters	
Alarm on keypad		Parameters settings - Control panel parameters	
SingleCallEachEv	SmartLiving System - Telephone	Parameters settings - Telephone dialer parameters	
Disab.GPRS fault	Nexus	General parameters - Other parameters	
Disab.Tel.Disarm		Parameters settings - Telephone dialer parame-	
NoStrings SIA-IP	SmartLiving System - Telephone	ters	
115200 BPS		Parameters settings - Control panel parameters	
UTC timeOnSIA-IP	SmartLiving System	Programming - Date/Time	
No Nexus on Cloud	SmartLiving System - Telephone	Parameters for Cloud	
	l		





Terminals

7-6

This section describes the configuration flexibility of the system terminals. The profile of each terminal can be configured as follows.

- program the type of terminal:
 - •• Input (I)
 - •• Output (O)
 - •• Two way supervised output (T)
 - Double Zone (D)
 - •• Unused (-)
- Programme the parameters related to the selected terminal.

For critical events or events of particular importance, it is advisable to use keypad terminals T1 and T2 as the signal outputs. The status of these outputs may switch (On to Off and vice versa) in the event of BUS reset.



ATTENTION!

Via Keypad

1. Access the "Programming Terminals" section.

Type-in Code (Installer PIN) (OK), PROGRAMMING Terminals (OK).

The display will show the:

- 1° line: the number of terminals
- 2° line: the type of terminals and the selected terminal
- 3° line: the description of the selected terminal
- 4° line: the description of the second zone of the selected terminal if it configured as a DOUBLE ZONE.
- 2. Use keys and to select the device whose terminals you wish to configure. The terminals are arranged as follows:
- terminals from 1 to 5 on the control panel
- terminals from 6 to 10 on the control panel (SmartLiving 1050 and 10100)
- terminals on expansion boards
- terminals on keypads
 - 3. Use and to scroll across the terminals. The selected terminal will blink. Configure the terminal by pressing:
- 1 to configure the terminal as an INPUT ("I")
- 2 abc to configure the terminal as an OUTPUT ("O")
- 3 def to configure the terminal as a TWO WAY SUPERVISED OUTPUT ("T")
- 4 ghi to configure the terminal as a DOUBLE ZONE ("D")
- 5 ik to configure the terminal as UNUSED ("-")
- 6 mno to enable/disable the terminal as "Wireless"
 - 4. Once you have configured the terminal, press (oK), 🕰 and 环 to configure its type.

If an UNUSED terminal is configured as I, O, T or D and the keypad emits an error "beep", it means that you have exceeded the maximum number of terminals available on the control panel. If you wish to employ the terminal concerned, you must first configure another terminal as UNUSED.

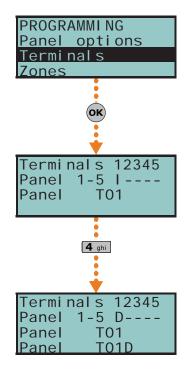
If you are working on a Flex5 expansion terminal, press key 6 mno to configure it, and consequently the entire expansion, as wireless. The "Wireless" string will be shown on the bottom line of the display. If you press key [6 mmo] again, the operation will undo.

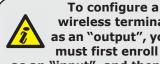
To enable the terminal for a wireless device, it must be configured as:

- INPUT- for Air2-IR100 and Air2-MC100 devices
- DOUBLE ZONE for Air2-MC200 devices

To configure a terminal as a wireless output, proceed as follows:

- 1. Position the cursor on the terminal concerned.
- 2. Press 6 mo to configure the terminal, and consequently the entire expansion, as
- 3. Configure the terminal as an "input" (1 .,).
- 4. Press (oK) to access the zone parameters programming section.
- 5. Go to the "Wireless" section.





wireless terminal as an "output", you must first enroll it as an "input", and then program it as an "output", as described in the

instructions (see opposite)



- 6. Enroll the terminal as "Terminal T1 CM" or "Terminal T2 CM".
- 7. Press the "ENROLL" button on the Air2-MC100 device.
- 8. Enable the "Broadcast RF" option as follows:

Type in Code (Installer) (OK), PROGRAMMING Zones (OK), select the zone, Options (OK),

BroadcastRF. OK

The "Broadcast RF" option must be enabled for each terminal of the Air2-MC100 device concerned.

Note

- 9. Go back to step 1 and configure the terminal as an output (2 abc).
- 10. Press **ok** to access the output parameters programming section (description, options, etc.).

Press **OK** in correspondence with any terminal, provided that it is not an UNUSED terminal, to access the parameter programming section of the type of terminal selected, whether it is a zone or an output (refer to *paragraph 7-7 Zones* or *paragraph 7-8 Outputs*).

Via PC

Select "SmartLiving System - Terminals" from the tree menu on the left, then go to the "Parameters settings" template on the right:

All the terminals will be shown on the respective page. You must configure the terminal graphically using the mouse, as follows:

- 1. Point to the terminal you require.
- 2. Right click on the mouse and select the required type.
- 3. Double click to set the options for the terminal.
- 4. Position the mouse on the programming field instead of on the specific terminal to configure all the terminals in the same way.

If the terminal is configured as "Zone" (=INPUT) or "Double" (=DOUBLE ZONE), it will appear in the Zone programming section (paragraph 7-7 Zones). If the terminal is configured as an "Outputs" (=OUTPUT) or "I/O" (= TWO WAY), it will appear in the Outputs programming section (refer to paragraph 7-8 Zones).

Zones 7-7

This programming section deals with all the zone parameters.

Via Keypad

1. Access the "Programming Zones" section.

Type-in Code (Installer PIN) OK), PROGRAMMING Zones OK).

2. Using keys \bigcirc and \bigcirc , select the zone then press \bigcirc \bigcirc \bigcirc

Description

This is the editable label which identifies the zone. At default all the zones assume the description of the peripheral they refer to, followed by the respective terminal.

1° line: default description

2° line: current description

3° line: description being edited

4° line: characters available

For example, the default description "Expansion 04 T03 corresponds to the zone located on terminal T3 of Expansion n. The default descriptions "Panel T05" and "Panel T05D" correspond to the two zones located on terminal T5 of the control panel, configured as "Double Zone".

Partitions

These are the partitions the zone belongs to. A zone configured as "Automation" cannot be assigned to any partition.

Use ■ * and □ # to enable or disable the selected partition.

Type

Use and to select the type of zone, then press ok. The available Types are (refer to Appendix A, Technical terminology and Glossary):

- Instant
- Delayed
- · Delayed unhidden
- Route
- 24 hour
- Automation
- · Armed in Away mode
- Disarm
- Switch
- OnArm/OffDisarm
- Patrol

For "Arm", "Disarm", "Switch", "OnArm/OffDisarm" "Follow" and "Patrol" zones, refer to Appendix A, Technical terminology and Glossary, Command Zones.

"Delayed" and "Delayed unhidden" zones are delayed during entry and exit phases, in accordance with the respective "Entry Time" and "Exit Time" settings (refer to paragraph 7-13 Partitions). A "Delayed unhidden" zone behave as follows:

- •• if violated when the system is disarmed, it will switch Off the blue LED on the keypad
- •• if the "View open zones" option is enabled, it will be shown on the keypad
- •• it will not generate "Partition not ready" events
- •• On arming from a keypad, the zone will appear as a violated zone but, when the arming operation is confirmed, will behave as a delayed zone and will not generate an alarm.
- •• if the "OpenZonesArmLock" option is enabled and the zone is violated, it will appear as a violated zone but, when the arming operation is confirmed, will behave as a delayed zone and will not generate an alarm.
- •• if the "OpenZonesArmLock" option is enabled, the zone is violated and instant arming is required, the zone will appear as a violated zone and when the partition arming operation is confirmed, the partitions the zone belongs to will not be armed.

Options

The available options (refer to *Appendix A, Technical terminology and Glossary*) must be enabled/disabled by keys $\blacksquare *$ and $\square *$:

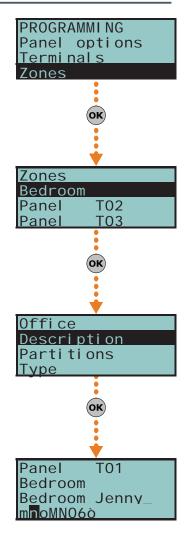
- Interior
- Auto-bypassable
- Unbypassable
- Chime
- Test
- TampReed/FollPir
- Broadcast RF
- Use sensor LED

The last three options apply to "Wireless" zones only, a full description of which follows.

Table 7-3: Wireless zones options

Option	If enabled	If disabled	
Орион	II eliableu	II disabled	
TampReed/FollPir	 Air2-IR100 - in order to increase battery life, the infrared sensor will deactivate when the partitions it belongs to are disarmed and will only activate when the partitions it belongs to arm. Deactivated detectors do not generate alarms. When the partitions arm, there may be a delay of up to 3 minutes before the detector receives the activation command. Air2-MC100/MC200 - detects magnetic-contact tamper 	 Air2-IR100 - the PIR detector will be active at all times. Air2-MC100/MC200 - tamper on the magnetic contact will not be detected. 	
	when both reeds are in standby status.		
Broadcast RF	This option must be enabled when the zone and one of the Air2-MC100 terminals ("T1" or "T2") is configured as an "output". Assures the activation/deactivation of the output within two seconds of the control panel command.	The activation/deactivation of a "wireless" output occurs within 6 minutes of the control panel command.	
	The red LED of Air2-IR100 and Air2-MC100/MC200 devices signal alarm or tamper on the device.		
Use sensor LED	Note This option will be enabled on all the terminals of the Air2-MC100.	The red LED of Air2-IR100 and Air2-MC100/MC200 will be "Off" at all times.	

• **No-Unbypassable** If this option is enabled, the zone will operate as an "Autobypassable" zone, with the difference that it will be automatically unbypassed when the partition next disarms.





- **NoArmIfNotReady**. If this option is enabled, the zone, even if it is a 24H, automation or delayed zone, will not arm when it is not in standby status. This option, for 24H or automation zones, can be used for the management of the "antimask" function of detectors which have this feature. Partitions which at the moment of arming have open zones with this option enabled, will not be armed; instead, the system will generate a failed arming even ("Failed to arm").
- **Delay time 2**. If this option is enabled, delayed zones will activate the second partition entry time. If this option is not enabled, delayed zones will activate the first partition entry time.
- Last exit zone. If this option is enabled, and the zone passes from standby status to alarm status while the partition exit time is running, the exit time will be forced to 15 seconds. If the zone passes from alarm status to standby status, the exit time will be forced to 5 seconds.
- **UnbypassOnDisarm**. If this option is enabled, a zone which has been bypassed by a user, will be automatically unbypassed when the partition next disarms.
- Hold-up.
- **Fault zone**. If this option is enabled, violation of the zone will generate a zone alarm event and contribute to fault signalling (yellow LED on the keypad).
- **Disable tamp. WLS.** If this option is disabled, open/dislodgement tamper on Air2 detectors will not generate the respective events.

Activation of this option will void compliance with current regulations.

ATTENTION!

Wireless

Please note that this section will be operative only when the zone you are working on is configured as a wireless zone (refer to paragraph 7-6 Terminals).

This section allows you to carry out all the operations relating to the programming of Air2 wireless series devices. The wireless-device programming section is arranged as follows.

• Enroll device - allows you to enroll a wireless device not yet enrolled on the terminal concerned.

Press or to initialize the enrollment process. Select the type of detector you wish to enroll:

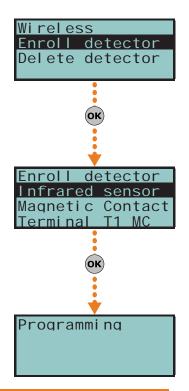
- •• Infrared sensor, allows you to enroll an Air2-IR100 detector
- •• Magnetic contact, allows you to enroll Air2-MC100 magnetic reed contact
- •• Terminal T1 M.C., allows you to enroll the "T1" terminal of an Air2-MC100
- •• Terminal T2 M.C., allows you to enroll the "T2" terminal of an Air2-MC100
- •• Smoke detector, allows you to enroll an Air2-FD100 smoke detector
- •• Magn.Cont.MC200, allows you to enroll an Air2-MC200 device.
- •• Curtain sensor, allows you to enroll an Air2-DT200T curtain detector
- •• Curtain direction, allows you to set the direction of an Air2-DT200T
- Double T. sensor, allows you to enroll an Air2-XDT200W dual technology detector
- •• Single T. sensor, allows you to enroll an Air2-XIR200W passive infrared detector
- •• OutdoorDetector, allows you to enroll an Air2-OTT100W outdoor triple technology detector, an Air2-ODI100W outdoor triple technology detector or an Air2-UT100 universal wireless transceiver

After selecting the desired type, press **OK**. The first line of the keypad will show the "Programming" string.

To enroll the wireless device, press and release its on-board "ENROLL" button. As soon as the enrolling process is complete, the keypad will emit an audible signal (beep) to confirm the operation, and will show (in accordance with the type of device) the following:

- **Delete detector**, allows you to delete (unenroll) an enrolled wireless detector from the terminal concerned
- **Infrared sensor** allows you to change the parameters of the previously enrolled Air2-IR100 or Air2-FD100 smoke detector If you press **ok**, it will be possible to adjust the sensitivity of the detector by setting the required number:
 - •• Air2-IR100: from 1 (least sensitive) to 4 (most sensitive)
 - •• Air2-FD100:1=0.08 dB/m (pre-set mode); 2=0.10 dB/m; 3=0.12 dB/m ; 4=0.15 dB/m
 - 1. Use keys and to select the field you wish to change, then use the number keys (1,, etc.) to edit the number.

Note





or

Use keys and to increase or decrease the number.

- 2. Press **OK**) to confirm and exit.
- **Magnetic contact**, allows you to change the parameters of an already enrolled Air2-MC100 magnetic contact. Press **OK**, to access the following options:
 - •• LongSide contact, detection using the long side of the magnetic contact.
 - •• **ShortSideContact**, detection using the short side of the magnetic contact.
 - •• Both contacts, detection using both sides of the magnetic contact.

If you select the "Both contacts" option, standby status will be detected when either (or both) of the 2 reeds close. If you select either "LongSide contact" or "ShortSideContact", standby status will be detected when the selected reed closes and the other opens. If both reeds close, the system will generate a terminal-tamper event. In fact, the most common method of jamming this type of device is to hold a magnet in the vicinity of the magnetic contact, should this ever occur, both reed relays will close to trigger a tamper event.

• Terminal T1 M.C. and Terminal T2 M.C., to change the parameters of terminal "T1" of an enrolled Air2-MC100. If you press ok at this point, the keypad will step back to the Zones menu and you can set up the parameters of the terminal: Balancing, Rollerblind, Times, etc.

Balancing, Rollerblind, Times, etc.
Terminals "T1" and/or "T2" of the Air2-MC100 device can be set up in the same way as wired terminals, with the exception that wireless terminals cannot be configured as "double zones".

- **Magn.Cont. MC200**, allows you to change the parameters of an already enrolled MC200 magnetic contact. Press **OK** to access the following options:
 - •• Infrared Shock allows you to set the sensitivity of the shock sensor (set "0" to disable, "1" for minimum sensitivity and "63" for the maximum sensitivity).
 - •• Tilt allows you to set the maximum angle allowed before signalling of tilting occurs.
 - •• **Tilt duration**, allows you to set the signal delay after the detection of tilting (variation of the angle).

If shock and tilt detection are both enabled, alarm signalling will be generated as soon as one of these conditions exceeds its set value.

- · Curtain detector,
- Dual T detector,
- Single T detector,
- Outdoor detector,

these items display the same menu that appears when **ok** is pressed:

- •• Sensitivity allows you to set the sensitivity of the PIR detector
- •• Shock Sensit. allows you to set the sensitivity of the shock detector
- •• Microwave Sensit.- allows you to set the sensitivity of the microwave sensor
- •• Antimask Sensit. allows you to set the sensitivity of the antimasking mechanism

The previously mentioned parameters will be shown in accordance with the specific device type. The values can be "0" for disablement, "1" for minimum value and "15" for maximum value.

Alarm signalling will occur as soon as one of the two sensors exceeds its programmed alarm threshold.

Balancing

Balancing can be (refer to Appendix A, Technical terminology and Glossary and paragraph 3-5 Wiring and balancing alarm detectors):

- Norm. open (NO)
- Norm.closed (NC)
- Single balancing
- Double balancing
- Double Zone (without EOL)
- Double Zone EOL (with EOL)

Alarm cycles

This programmable parameter accepts values between 1 and 15. If you set the value at 15, the zone will operate as a "repetitive zone" (refer to *Appendix A, Technical terminology and Glossary, Alarm cycles*).

Detector type

It is possible to configure a zone as:

- Generic zone
- Rollerblind
- Shock

The following Table shows the terminals which accept Generic, Rollerblind and Shock zones, and the respective zone-parameter fields for each type.



Table 7-4: **Zone - detector type**

	Generic zone	Rollerblind	Shock
Control panel terminals	any	T1, T2	T1, T2
Expansion terminals	any	T1, T2, T3 or T4	T1, T2, T3 or T4
Keypad terminals	any	any	any
Extra Parameters	Al. pulse Duration Multipulse time Alarm pulses	Rollerblind time Rollerbl. pulses	Shock sensit. Shock time Shock pulses

Al. pulse Duration (generic zone)

This is the length of time (after detection of alarm conditions) the zone allows before generating an alarm. Expressed in multiples of 15 milliseconds or 10 seconds.

Multipulse time (generic zone)

This parameter applies only when the "Alarm pulse num." parameter is more than 1.

This is the window during which a number of alarm pulses must be detected (each lasting as long as the programmed "Al.pulse Duration"). The number of alarm pulses must equal or exceed the value programmed for "Alarm pulses", before the system generates an alarm. This window can be expressed in seconds or minutes (see opposite).

Alarm pulse num. (generic zone)

This is the number of pulses (each lasting as long as the programmed "Al.pulse Duration") necessary to generate a zone alarm event. If this value is more than 1, you must also programme the "Multipulse time" parameter.

Rollerblind time (rollerblind zone)

This parameter applies only when the value of the "Rollerbl. pulses" (see below) is more than 1.

This is the time window during which the system must detect a number of pulses equal to or higher than the value programmed for "Rollerbl. pulses" before generating a zone alarm. This window can be expressed in seconds or minutes (see opposite).

Rollerbl. pulses (rollerblind zone)

This is the number of pulses necessary to generate a zone-alarm event. If this value is more than 1, you must also programme the "Rollerblind time" parameter.

Shock sensit. (shock zone)

This is an empirical parameter which regulates the sensitivity of the sensor. Increasing this value decreases detection sensitivity.

Shock time (shock zone)

This parameter applies only when the "Shock pulses" value is more than 1.

This is the window during which a number of pulses must be detected the number of alarm pulses must equal or exceed the value programmed for "Shock pulses", before the system generates an alarm. This window can be expressed in seconds or minutes (see opposite).

Shock pulses (shock zone)

This is the number of pulses necessary to generate a zone-alarm event.

If this value is more than 1, you must also programme the "Shock time" parameter.

If this value is 0, the zone alarm will be generated by the "Shock sensit." parameter.

All the above-mentioned values can be programmed as follows:

- 1. Use and where possible to indicate the time in multiples of 15 millieseconds, seconds or minutes (refer to the note opposite).
- 2. Use keys and to select the field you wish to change, then use the number keys (1, , etc.) to edit the number.

or

Use keys and to increase or decrease the number.

3. Press **OK** to confirm and exit.

Via PC

Programming zones via the SmartLeague application is accomplished by the selection and programming of the terminal configured as zone, described in *paragraph 7-6 Terminals*.

If this value is expressed in minutes, there is an error margin of one minute (for example, if you set 5 minutes, the effective period can vary between 4 and 5 minutes).



Outputs

7-8

This programming section describes the programming processes of all the output parameters.

SmartLiving control panels always provide 3 outputs:

- Relay output
- Open collector output (O.C.) 1
- Open collector output (O.C.) 2

The outputs configured on the Flex5/P and Flex5/U expansion boards are open-collector outputs, with the exception the one configured on terminal T5 that can be configured as an analogue output (industrial standard 0-10V).

The 5 outputs on the Flex5/DAC expansion board can be configured as:

- · high-power relay output
- Triac ON/OFF output (default setting)
- Triac dimmer output

The terminal pairs of the Flex5/DAC OUT1-OUT2 and OUT3-OUT4 are provided with the interlock function which is required in applications with, for example, rollerblind motors.

The interlock function inhibits the contemporary activation of the associated terminals. It is activatable through the respective option which must be enabled for both terminals in the pair.

Via Keypad

1. Access the "Outputs" section.

Type-in Code (Installer PIN) (OK), PROGRAMMING Outputs (OK).



Description

This is the editable output label (device description). At default all the outputs, except for the 3 outputs on the control panel motherboard, assume the description of the peripheral they refer to followed by the respective terminal.

Follow the instructions in paragraph 7-7 Zones - Descriptions.

Options

Use $\blacksquare *$ and $\square *$ to enable or disable the selected option.

- Norm. closed: this will be the output status during standby.
- Monostable
- **Buzzer (beeper)**: generates a 1Khz signal when the output activates can be used to drive a buzzer.
- **Blinker**: generates an intermittent signal (0.5 sec ON and 0.5 sec OFF) when the output activates. It can be employed in direct control of a visual signalling device (e.g. flasher).
- **ON afterRestoral**: the output does not restore-to-standby (reset) when the trigger-event clears. This option is useful in situations that require a trigger event for output activation and a reset event for its deactivation.

This option applies to "Bistable" outputs only. If it is enabled for a bistable output with reset-event configuration, it will deactivate the output instead of activating it (refer to paragraph 7-11 Events).

This option is useful in situations that require the output to reveal event "memory" (event signalling which continues even after the event has cleared). In this case, the output is deactivated by a different event which restores it directly to standby (resets the output).

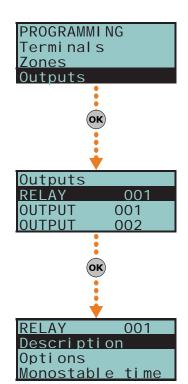
For example:

- •• O.C. Output 1 is configured as "ON afterRestoral"
- •• the activation of "Mains failure" event is programmed to trigger O.C. Output 1
- •• the restoral (reset) of "Valid code"event is programmed to trigger O.C. Output 1

In the event of Mains failure, O.C. Output 1 will activate but will not restore to standby (reset) when the Mains failure condition clears. It will restore to standby (reset) only when "CODE 1" is entered a keypad and generates a "Valid code" for the "CODE 1" event.

• **Switching** - each time you execute an "activate output" command, the output will switch status. Therefore, if it is deactivated it will activate and vice versa. However, each time you execute a "deactivate output" command, the output will always deactivate.

If you wish to manage this feature through a shortcut, you must use the "Activate outputs" shortcut.





- Dimmer the output is a dimmer output thus the power supplied through the terminals can be adjusted by the end-user
- **Relay Use -** the output is a relay output
- Home automation if the control panel enters programming mode, the activated output will not return to stand-by status.
- **Interlocked** This option enables the interlock function on the pair of terminals which the terminal of the selected Flex5/DAC belongs to (pairs OUT1-OUT2 and OUT3-OUT4)

In order for this to be valid, this option must be enabled for both terminals in the pair.

If the stand-by status of the output is determined by the occurrence of an event, the output will still not return to stand-by status during programming mode.

Note

A declaration as to the type of output which is incoherent with the output itself may cause malfunction.

Monostable time

This parameter applies to "Monostable" outputs only. This interval can be expressed in seconds or minutes (see "info" box).

When a "Monostable" output receives an activation signal, it will remain active (On) for the programmed time, regardless of the status of the trigger-event. In some cases, "Monostable" outputs can be forced to standby before the programmed monostable time runs out.

Use keys $^{\bigcirc}$ and $^{\bigcirc}$ and the number keys to set the times.

Via PC

Programming zones via the SmartLeague application is accomplished by the selection and programming of the terminal configured as output, described in paragraph 7-6 Terminals.

Walk test

This section provides a quick and easy way of testing all the configured inputs. After initializing the Walk test, all you need to do is walk through the protected partitions and then check the detection capacity of the inputs via the system keypad or SmartLeague software application.

Via Keypad



Type-in the code (Installer) OK, PROGRAMMING Walk test OK.



On access this section, the full list of configured zones appears on the screen. As these input zones are violated by the operator carrying out the walk test, they will be cleared from the list and the keypad will emit a long beep.

You can consider the outcome of test positive when there are no zones left on the list.

Via PC

Select "Check control panel - Monitoring - Walk test" option from the menu bar. The display will show a list of all the configured zones and the start test button. Once you press the test button, the violated zones will be marked by a red dot.

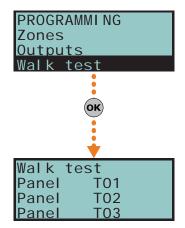
Note



7-9

If this value is expressed in minutes, there is an error margin of 1 minute (for example, if you set 5 minutes, the period can vary between 4

and 5 minutes).





Telephone

7-10

This programming section deals with all the telephone parameters.

The built-in ATS device (alarm transmitting system) provides the following features (in compliance with EN50131 relating to the notification of information).

- Type B notification apparatus (refer to EN50131-1:2008-02, paragraph 8.6 Notification, Table 10, page 46, Grade 2).
- The ATS2 notification apparatus specified in the table, is characterized by:
 - •• Transmission time classification D2 (60 seconds)
 - •• Transmission time max. values M2 (120 seconds)
 - Classification time classification T2 (25 hours)
 - •• Substitution security S0 (no detection of device substitution)
 - Information security IO (no detection of message substitution)

Via Keypad

Type-in Code (Installer PIN) (OK), PROGRAMMING Tel ephone (OK)

Select number

The Phonebook provides 15 number slots which can be selected by means of keys and . You can program the following fields for each selected number:

- **Number**: edit field for the contact number (maximum 20 digits). Accepts also "," (= 2 second pause), "*" and "#".
- **Description**: edit field for the name of the contact person. Follow the instructions in paragraph 7-7 Zones.
- Type:
 - •• None the selected number can receive SMS text messages only
 - •• **Voice** the selected number can receive voice calls and SMS text messages If the number refers to the Alarm Receiving Centre, assigns the **ARC** protocol (reporting format):
 - Ademco 10bps
 - •• Ademco 14bps
 - Franklin 20bps
 - Radionics 40bps
 - Scantronic 10bps
 - •• CONTACT-ID
 - •• **SIA** Level 1 SIA is applied This reporting format (protocol) is capable of sending descriptions of the objects in ASCII characters. if you do not wish to send the descriptions in ASCII characters, select "No SIA strings" (refer to *paragraph 7-5 Panel options*). You can set a 4, 5 or 6 digit customer code for this protocol.
 - • Ademco Express
 - •• CESA
 - •• SIA-IP

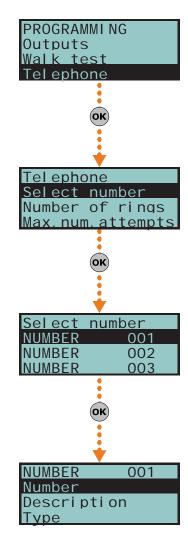
Use keys \bigcirc and \bigcirc to select the number type then press \bigcirc \bigcirc \bigcirc

If a telephone number is "SIA-IP" type, the IP address and port of the SIA-IP receiver must be entered in the receiver number field in the "Number" section, using the following format:

xxxyyyzzzttt,ppppp

where:

- "xxxyyyzzzttt" are the 4 octets of the IP address (standard IPv4), each of which should be written with 3 figures and, if necessary, "0" filler characters and no separation points.
- "ppppp" is the port and should be written with 5 figures and, if necessary, "0" filler characters.
- Account code: a 4-character alphanumeric code which identifies the caller in reports to the Alarm Receiving Centre. Some protocols (reporting formats) accept digits only, whilst others accept also "A", "B", "C", "D", "E" and "F", available using keys 2 abc 3 def.
- **Partitions**: this option allows you to associate each telephone number with specific partitions. By selecting the partitions, using Keys * and □ * *, you enable/disable the users (who have at least one of these partitions in common with the telephone number) to modify the number concerned.





Options:

- •• Receive SMS, this option allows the telephone number to receive an SMS message from the Nexus GSM module, as well as all other event-related communications.
- •• BackupOnOtherCha , this option, in the event of call failure on a channel, enables the control panel to carry out call attempts on an alternative channel, and then retry on the original channel in order to alternate the set number of attempts.
- **Channel**, this section allows you to select the channel for the priority routing of a call in the event of incoherent programming or in the event of the failed accessibility of the communication device:
 - PSTN
 - Nexus
 - SmartLAN
- Encryption this section allows you to select the encryption type of SIA-IP protocol:
 - None
 - •• AES 128 bit
 - •• AES 192 bit
 - •• AES 256 bit

Number of rings

This value determines the number of rings the system allows before picking up an incoming call.

Max.num.attempts

This value determines the number of calls attempts the system will make before deleting the contact number from the call queue.

Message repeats

This value determines the number of times the voice message will be played during the call.

All the above-mentioned values can be programmed as follows:

1. Use keys of and to select the field you wish to change, then use the number keys (1, , etc.) to edit the number.

or

Use keys and to increase or decrease the number.

2. Press (oK) to confirm and exit.

Via PC

Table 7-5: Telephone - via SmartLeague software programme

Option	Part of the system	Template/section
Select number		Programming
Number of rings	SmartLiving System - Telephone	Parameters settings - Telephone line parameters
Max.num.attempts	Smartciving System - Telephone	Davameters cottings Telephone dialor narameters
Message repeats		Parameters settings - Telephone dialer parameters

Events 7-11

This programming section deals with all the event-generated output actions.

The control panel recognizes all of the events described in this paragraph and is capable of generating pre-programmed actions for each event, both when the event occurs and when it restores/ends.

The actions are:

- activation of outputs
- activation/deactivation of outputs
- · event notification via telephone call
- send SMS text messages
- event storage
- management of voice messages
- management of the option of each event
- · activation of event related shortcuts



Telephone notifications (calls) are queued and sent out in chronological order. However, some events may need to be notified immediately (for example, use of a code under duress), therefore, such events can be given priority by selecting the "Priority" option.

Event notification via e-mail requires the use of a SmartLAN/G board (refer to paragraph 3-10-3 SmartLAN).

Event notification via predefined SMS messages requires the use of a Nexus (refer to paragraph 7-29-3 Text for SMS messages).

If a list of telephone calls is programmed for the notification of an event as well as SMS messages, the SMS messages will be sent before the telephone calls.

Note

The following table shows the events the control panel recognizes, the number of events for each type, the trigger and restoral method of each event and the event category (Pulse).

Table 7-6: Event type

Table 7-6: Event type					
Name	Occurs when	Restores when	Number of events	Pulse events	Control panel models
Zone alarm	A zone generates an alarm	A zone restores	One event for each zone	no	all
Terminal tamper	A terminal detects tamper (short-cir- cuit or wire cutting)	A terminal restores	One event for each terminal	no	all
Partition alarm	A 24h zone which belongs to the partition generates an alarm, or a zone which belongs to the partition generates an alarm during Away mode.	All the zones belonging to the partition restore (reset).	One event for each partition	no	all
StayPartit.alarm	A zone which belongs to a partition armed in Stay or Instant mode, generates an alarm.	All the zones belonging to the partition restore (reset).	One event for each partition	no	all
Partition tamper	A zone which belongs to the partition detects tamper (short-circuit or wire cutting).	All the zones belonging to the partition restore (reset).	One event for each partition	no	all
Zone bypass	A zone is inhibited	A zone is enabled (switched On)	One event for each zone	no	all
Dool time none	The electrical status of a zone switches from standby to alarm	The electrical status of a zone switches from alarm to standby	One event for each		all
Real-time zone	The event is independent of the zone type and the armed/disarmed status of the partitions.		zone	no	all
Partit.not ready	A zone which belongs to the partition is not in standby status.	All the zones belonging to the partition are in standby status.	One event for each partition	no	all
Away arm request	A request is made to arm the interior and perimeter zones of the partition	A request is made to disarm the partition	One event for each partition	Yes	all
Overtime request	A request is made to arm the partition in Stay mode (perimeter zones only) or in Instant mode	A request is made to disarm the partition	One event for each partition	Yes	all
Partit.awayArmed	The partition interior and perimeter zones have been armed effectively	The partition will be disarmed	One event for each partition	no	all
Partit.StayArmed armed	The partition has been armed effectively in Stay or Instant mode	The partition will be disarmed	One event for each partition	no	all
Disarm partition	The partition will be disarmed	The partition will be armed	One event for each partition	no	all
Partition reset	A request is made to reset the partition		One event for each partition	Yes	all
Exit time	The partition exit time starts running	The partition exit time expires	One event for each partition	no	all
Entry time	The partition entry time is running	The partition entry time expires	One event for each partition	no	all
Pre-arm time	The partition Pre-arm time is running	The partition Pre-arm time expires	One event for each partition	no	all
Overtime request	A request for overtime relating to the partition is made		One event for each partition	Yes	all
Chime	A chime zone belonging to the partition is violated		One event for each partition	Yes	all
Forced arming	At the time of an arming command, relating to one or more partitions, there are open zones on the partition/partitions involved, or there are other conditions present which lower system security, nonetheless, the user arms the system.		One event for each partition	Yes	all





Table 7-6: Event type

	Table 7-6: Event type Description Pulse Control panel Pulse Pulse						
Name	Occurs when	Restores when	Number of events	events	Control panel models		
Failed to arm	The "OpenZonesArmLock" option is enabled at the time of a partition arming command and there is at least one open zone on the partition/s involved. or when one or more of the conditions described in "LossTamp.ongoing" is present (refer to "FaultForNotReady", paragraph 7-27 Other parameters).		One event for each partition	Yes	all		
Valid code	A user-code PIN entered at a keypad is recognized as valid		One event for each code	Yes	all		
Valid key	A key used at a reader is recognized as valid on the reader		One event for each key	Yes	all		
Valid Code AtKeyp.	A user-code PIN entered at a keypad is recognized as valid on the keypad		One event for each keypad	Yes	all		
ValidKeyAtReader	A key used at a reader is recognized as valid on the reader		One event for each reader	Yes	all		
Partition code	A user-code PIN entered at a keypad is recognized as valid on the partition		One event for each partition	Yes	all		
Partition key	A key used at a reader is recognized as valid on the partition		One event for each partition	Yes	all		
Failed call	All attempts to call a specific telephone number have failed	One call to the phone number has been successful	One event for each contact telephone number	no	all		
Timer activated	The timer is enabled (On)	The timer is disabled (Off)	One event for each timer	no	all		
Thermostat ON	The activation conditions set for the keypad thermostat occur.	The deactivation conditions set for the keypad thermostat occur.	One event for each keypad	no	all		
Scenario ON	The status of all the partitions corresponds exactly to the pre-set scenario.	The status of all least one of the partitions does not correspond to the pre-set scenario.	One event for each scenario	no	all		
ProgrammableEvt	See paragrapi	h 7-11-3 Programmable events		no	all		
Emergency key	One of the emergency-key duos is pressed		One event for each emergency-key duo	Yes	all		
Panic Ev.	The "Panic" shortcut has been activated.		15	Yes	all		
Periodic event	The Periodic Event occurs		4	Yes	all		
Panel opened	The control-panel enclosure is removed	The front of the control-panel is replaced	1	no	all		
Dislodged panel	The control-panel enclosure is detached from the wall	The control-panel enclosure is reattached to the wall	1	no	all		
Zone fuse fault	The zone protection fuse on the control panel is not operational (blown)	The zone protection fuse on the control panel restores	1	no	all		
IBUS fuse fault	The I-BUS protection fuse is not operational (blown)	The I-BUS protection fuse restores	1	no	all		
Low battery	The backup battery is low (voltage below 10.4V)	The backup battery is charged (voltage above 11.4V)	1	no	all		
Mains failure	The primary power supply 230V~ fails	The primary power supply 230V~ is restored	1	no	all		
Expansion tamper	An expansion board signals tamper conditions	Tamper conditions clear on all the system expansion boards	1	no	all		
Keypad tamper	A keypad signals tamper conditions	Tamper conditions clear on all the system keypads	1	no	all		
Reader tamper	A reader signals tamper conditions	Tamper conditions clear on all the system readers	1	no	all		
Sound.flash.Tamp	A sounderflasher connected to the BUS signals tamper	All the sounderflashers connected to the BUS reset	1	no	all		
Nexus tamper	The GSM dialer Nexus signals tamper	Tamper conditions clear on the Nexus	1	no	all		
Tamp. LIVPWR100		For future use					
VideoSens.Tamper		For future use			1		
Expansion loss	An expansion board cannot be found on the BUS	All expansion boards can be found on the BUS	1	no	all		
Keypad loss	A keypad cannot be found on the BUS	All keypads can be found on the BUS	1	no	all		
Reader loss	A reader cannot be found on the BUS	All readers can be found on the BUS	1	no	all		



Table 7-6: **Event type**

M		Destares when	Numbered	Pulse	Control panel
Name	Occurs when	Restores when	Number of events	events	models
Sound.flash.Loss	A sounderflasher cannot be found on the BUS	All sounderflashers can be found on the BUS	1	no	all
Nexus loss	The control panel is unable to communicate the Nexus 100	Communication between the control panel and the Nexus restores	1	no	all
Nexus LIVPWR100	The control panel is unable to communicate with the LIVPWR100 board	Communication between the control panel and the LIVPWR100 restores	1	no	SmartLiving G3
VideoSensor loss		For future use			
Jamming	Wireless interference detected	Wireless interference cleared	1	no	all
Low battery WLS	The battery of a least one wireless detector is running low	All the wireless detectors are run- ning with sufficient power	1	no	all
WLS zone loss	Loss of at least one wireless detector has been signaled (supervisory timeout)	All the wireless detector are present	1	no	all
Installer code	An Installer PIN entered at a keypad is recognized as valid		1	Yes	all
Invalid code	An invalid code is entered at a keypad		1	Yes	all
False key	An invalid key is used at a reader		1	Yes	all
Nexus fault	The GSM dialer Nexus signals a fault (see <i>Chapter 9 - Errors and faults</i>)	Fault conditions clear on the Nexus	1	no	all
Tel. line down	The land line is not working	The land line restores	1	no	all
Hard reset	The control panel re-initializes. The system clock may be wrong or not working properly.		1	Yes	all
Call queue full	There are no more slots left in the outgoing call queue		1	Yes	all
Successful call	The call is answered		1	Yes	all
Programming	Access to system programming is authorized	End of system programming	1	no	all
Ongoing call	A call is sent	A call ends	1	no	all
SMSMessageFailed	Nexus failed to send SMS message		1	Yes	all
Output fault	An output fails to switch status as com- manded		1	Yes	all
Low credit	The credit remaining on the SIM card inserted in the Nexus is below the minimum credit threshold.	The remaining credit is above the minimum credit threshold.	1	no	all
Time modified	There is a change in the date and time. This event will be recorded together with the date/time before the change.	There is a change in the date and time. This event will be recorded together with the date/time after the change.	1	no	all
Int. Resistance	The internal resistance of the battery has exceeded the R _{i max} value. Refer to <i>Table 2-2: Control panels - electrical and mechanical features</i>	The internal resistance of the battery returned to below the $R_{i\ max}$ value.	1	no	all
Battery shorted	A short-circuit condition has been detected on the battery connection terminals	The short-circuit condition is no longer present	1	no	SmartLiving G3
Battery disconn.	The backup battery is disconnected	The backup battery is connected	1	no	SmartLiving G3
PwSupplyOverload	Output overload is detected on the power-supply unit Refer to <i>Table 2-2: Control panels -</i> <i>electrical and mechanical features</i>	The electrical load returns below the allowed limit	1	no	SmartLiving G3
PwSupply Overheat	The temperature of the power-supply unit has exceeded the allowed limit	The temperature of the power- supply unit is normal	1	no	SmartLiving G3
Ground fault	Leakage to ground is present	The leakage to ground condition is no longer detected	1	no	SmartLiving G3
Overvoltage "x"	A voltage of over 14.5V has been detected on terminal "+AUX" corresponding to number "x" on the LIVP-WR100 board.	The normal voltage on the termi- nal has been restored.	1	no	SmartLiving G3
Overvolt. BUS	A voltage of over 14.5V has been detected on I-BUS terminal "+" on the LIVPWR100 board.	The normal voltage on the termi- nal has been restored.	1	no	SmartLiving G3
Undervoltage	A voltage below 9.8V has been detected on terminal " +AUX " corresponding to number "x" on the LIVPWR100 board.	The normal voltage on the termi- nal has been restored.	1	no	SmartLiving G3

		l contraction			
Name	Occurs when	Restores when	Number of events	Pulse events	Control panel models
Undervoltage BUS	A voltage below 9.8V has been detected on I-BUS terminal "+" on the LIVP-WR100 board.	The normal voltage on the termi- nal has been restored.	1	no	SmartLiving G3
Short circuit "x"	A short-circuit has been detected on terminal " +AUX " corresponding to number "x" on the LIVPWR100 board.	The short-circuit is no longer present.	1	no	SmartLiving G3
Short circuit BUS	A short-circuit has been detected on I- BUS terminal "+" on the LIVPWR100 board.	The short-circuit is no longer present.	1	no	SmartLiving G3
Overload "x"	A load of over 1.5A has been detected on terminal " +AUX " corresponding to number "x" on the LIVPWR100 board.	The terminal restores to normal.	1	no	SmartLiving G3
Overload BUS	A load of over 3.5A has been detected on I-BUS terminal "+" on the LIVP-WR100 board.	The terminal restores to normal.	1	no	SmartLiving G3
NoCommunPwSuppl y	Communication between the power supply unit and the control panel has broken down.	Communication between the power supply unit and the control panel restores.	1	no	SmartLiving G3
Tel. on number 1	A call has been sent to phone number 1	The call has ended (even in the event of negative outcome)	1	no	all
Tel.on number 15	A call has been sent to phone number 15	The call has ended (even in the event of negative outcome)	1	no	all
Sync.data IP2RX	The IP2RX synchronization process has been carried out from a keypad (refer to the User Manual, "Activations")		1	Yes	all
IP conn. lost	The IP connectivity test is enabled and the test result in negative (failed).	A connection attempt has been successful.	1	no	all
IP conn. lost	Nexus/G has detected GPRS connectivity trouble.	The GPRS connectivity is restored.	1	no	all

Each event can be associated with 3 voice messages, selected from the message list (refer to Appendix D, Voice messages).

- Message type
- Message A
- Message B

This feature allows you to create messages which will be played during event-related voice calls to contact numbers, both at the start and end of the event.

The choice of messages and the number of times they are played depends on the "AutomaticDialer" settings.

Via Kevpad

1. Accessing the "Events" section

Type-in Code (Installer PIN) (OK), PROGRAMMING Events (OK).



- 2. Use keys and to select the event type (if you are dealing with a group of events, repeat the required operation) and , then press (ok).
- 3. Select:
- **Activation**, to programme the actions to be carried out when the event occurs.
- **Restoral**, to programme the actions to be carried out when the event ends.
 - 4. Successively, the parameters to programme are:

TelephoneNumbers

Programme the call recipient numbers.

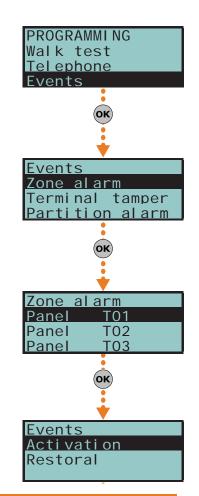
Message type Message A Message B

Select the number of the message (see Table 7-7: Event-related messages and Appendix D, Voice messages):

1. Use keys and to select the field you wish to change, then use the number keys ($\mathbf{1}$,, etc.) to edit the number.

or

Use keys and to increase or decrease the number.





2. Press **ok** to confirm and exit.

The following table shows the voice-message sequence in accordance with the previously mentioned parameters and options.

Table 7-7: Event-related messages

	"Automatic dialer" enabled	"Automatic dialer" disabled	
Message type	Plays the message relating to the event type (e.g. "zone alarm", "Mains failure") This message should not be changed.	You can select any message from 1 to 219	
Message A	Blank messa	age, editable	
Message B	Contains event details, for events which are not distinctive (e.g. the "zone alarm" event indicates the zone concerned).		
Event Activation Sequence	1. Message type + 260 2. Message A 3. Message B 4. "Location" (244)	 Message type Message B "Location" (244) 	
Sequence in the event of Restoral	 "Restoral" (97) Message type Message A Message B "Location" (244) 	 Message A Message B "Location" (244) 	

If an event is associated with the "Automatic dialer", the "Type Message" option refers to messages 261 to 312, that is to say, the messages containing the event descriptions (event types).

Note

Options

To be activated by keys $\blacksquare *$ and $\square *$:

Table 7-8: Event options

	Table 7-6. Event options					
	Option	If enabled	If disabled			
Event ON to log		When the event occurs, it will be saved to the events log.	When the event occurs, it will not be saved to the events log.			
Even	nt OFF to log	When the event clears, it will be saved to the events log.	When the event clears, it will not be saved to the events log.			
Star	tPeriodicEv.	When the event occurs, the system will generate Periodic event number 1.				
Sil	lent event	If the event occurs, the system will generate silent calls which will not be signaled on the keypads.	If the event occurs, the system will generate calls which will be signaled on the keypads.			
Clea	r call queue	When the event occurs, the system will cancel the outgoing call queue.				
Sei	nd address	In the case of voice calls, the system will include the address of the location alarm (refer to the <i>Table 7-7:</i> Event-related messages)	In the case of voice calls, the system will not include the address of the location alarm (refer to the <i>Table 7-7:</i> Event-related messages)			
Local	Message ON	When the event occurs, the system will play the event- related voice message on keypad speaker n. 1				
Local	MessageOFF	When the event occurs, the system will not play the event-related voice message on keypad speaker n. 1				
Auto	matic Dialer	Refer to the Table 7-7: Event-related messages				
	Priority	Calls associated with this type of event have priority over all other calls. Therefore, if a priority event occurs, any ongoing calls will be interrupted and the priority-event call will be sent immediately.				
This option is applicable only	ForceAlt.Chann el	All the programmed event calls will not be made over the channel indicated by the "Channel" parameter when programming each phone number, but instead will be made over the alternative channel (refer to paragraph 7-10 Telephone).				
when a Nexus device is installed	Automatic SMS	The dispatched SMS message will consist of the event description in the Events log	The SMS text message can be selected from the 50 messages provided by the Nexus device. The SMS text message is identified by the "SMS message number/index", as described below.			
	Enable SMS	When the event occurs, the control panel will send an SMS message to all the duly enabled telephone numbers (refer paragraph 7-10 Telephone)	When the event occurs, the control panel will not send an SMS message			

Class code

This is the CONTACT-ID reporting format Class-Code which corresponds to the event.



Event code

This is the 2-character alphanumeric code, which corresponds to the event sent the alarm receiving centre (ARC). For zone and terminal events (alarm, tamper, bypass), the "CCC" field of the CONTACT-ID protocol counts the number of hard terminals in accordance with the Hard terminals table (refer to *Appendix E, Screw Terminals*).

Outputs

When programming the Event-Activation section, you must programme the main output which will be activated when the event occurs. When programming the Event-Restoral section, you must programme the main output which will be activated when the event ends.

Select the output from the list (which includes the Relay outputs, OC1, OC2 and the terminals configured as outputs and also the sounderflashers) and press (K_{OK}) .

If the output has the "ON afterRestoral" option enabled (refer to paragraph 7-8 Outputs) and it is programmed on event restoral, the output will deactivate when the event occurs.

Note

For Zone alarm, Terminal tamper, Partition alarm, Stay partition alarm and Partition tamper events, monostable outputs programmed in the "Outputs" section will restore these events when, on expiry of the monostable time, the event concerned has effectively returned to standby status. If the event status restores to standby while the monostable time is running, the event itself will not be restored.

Other outputs

This section allows activation of added outputs (as well as the output programmed in the "Outputs" parameter) when the event occurs or restores.

These added outputs can be selected by means of keys $\blacksquare *$ and $\square *$ from a programmable list in the "Added Outputs" section.

OtherOutputsProg

This section allows the creation of the list of outputs (16 for "Activation" or 8 for "Restoral" to be programmed in the "Other outputs" section.

This is the sole list for the entire control panel and is independent of the type of event.

Note

Use keys and to make your selection and then press ok to confirm.

SIA Codes

If the event is associated with calls using SIA or SIA-IP protocol, this option allows you to programme the event code in accordance with SIA Standard, by selecting it from a list.

Use keys and to make your selection and then press or to confirm.

An appendix provides an explicative table of all the SIA codes (Appendix G, SIA Codes).

Siren sound types

This section allows you to select the audible-visual signals emitted by the sounderflashers, when these are programmed in the "Outputs" and "Other outputs" section.

Please note that the "Tone Type" is a parameter of the event. Therefore, if several sounderflashers have been programmed in relation to a specific event, they will all emit the programmed tone when the event occurs. If a sounderflasher has been programmed in relation to several events, it will emit the last tone type setting received in order of time.

Use keys and to make your selection and then press or to confirm.

For further information regarding the "Outputs", "Other outputs" and "Tone type" parameters of each event, refer to *Appendix F*, *Combination of outputs triggered by events*.

Via PC

Table 7-9: Events - via SmartLeague

Option	Part of the system	Template/section	
TelephoneNumbers			
Message type			
Message A			
Message B		Duo augus pro recim a	
Options	SmartLiving System - Events - select a single event	Programming	
Class code			
Event code			
Outputs			
Other outputs		Parameters settings - Other outputs	



Table 7-9: Events - via SmartLeague

Option	Part of the system	Template/section
OtherOutputsProg	SmartLiving System - Events	Parameters settings - Outputs
SIA Codes		Programming - Digital Dialer
Siren sound types	SmartLiving System - Events - select the event type	SmartLiving System - Siren pattern
SMS message number/index		Parameters settings - Nexus

SMS message number/index

This option can be programmed solely via the SmartLeague software programme.

This option is applies only when a Nexus device is installed and the "Automatic SMS" option is disabled. It determines which of the 50 available SMS messages will be sent (refer to paragraph 7-29-3 Text for SMS messages) when the event occurs.

Shortcut on event

7-11-1

A shortcut can be associated with each event, the selected shortcut will activate as soon as the events activates. This process can be done via the SmartLeague software program only.

These shortcuts function differently from those which can be activated by the user (refer to *Appendix B, Shortcuts at default*) and allow the control panel to activate automatically determined operations when the event occurs.

The programming phase can be accessed via the SmartLeague, by selecting the event from the system tree menu (on the left) that is to be assigned to the shortcut on the respective "Programming" page (on the right). The "Shortcut functions" section provides check boxes that allow the selection of the shortcut and definition of the relative parameter:

Table 7-10: Shortcut on event

Shortcuts	Function	Option	
Activate scenario	Shortcut that activates the scenario selected in the check box along-side.	One of the 30 shortcuts available	
Activate output	Shortcut that activates the scenario selected in the check box along-	One of the configured outputs	
Deactivate output	side.	one of the configured outputs	
Bypass zone	Shortcut that deactivates/activates the zone selected in the check box	One of the configured zones	
Unbypass zone	alongside.	One of the configured zones	
Disable code	Shortcut that deactivates/activates the code selected in the check box	One of the available codes	
Enable code	alongside.	One of the available codes	
Disable key	Shortcut that deactivates/activates the key selected in the check box	One of the available keys	
Enable key	alongside.	One of the available keys	
Activate thermostat	Shortcut that activates the keypad thermostat in the operating mode selected in the check box alongside.	One of the keypads available Thermostat operating mode	
Deactivate thermostat	Shortcut that deactivates the keypad thermostat selected in the check box alongside.	One of the keypads available	
Dimmer up	Shortcut that increases/decreases the set value of the voltage supplied	One of the outputs configured as	
Dimmer down	to the dimmer output selected in the check box alongside.	dimmer	
Delete alarm memory	Shortcut that deactivates the outputs relative to zone/partition alarm and tamper events and deletes the partition and system alarm and tamper memories. This shortcut operates on the partitions selected for the scenario.	One of the 30 shortcuts available	

Output scenarios 7-11-2

The assignment of the activation shortcut of an output scenario to the activation and deactivation trigger of each event can be done via the SmartLeague software program only.

The SmartLiving control panel provides 50 output scenarios, each with a maximum of 10 outputs.

Programming occurs in two phases: the first is the definition of the scenarios, the second is the assignment to the activation and restoral of the event.

From the system tree menu on the left, select the "Events" option, the "Output Scenarios" list will appear in the "Programming" section on the right.

There are 50 scenarios available in the list. Selecting one of them will allow you to use the programming area, alongside the list, to configure each of the 10 outputs available.

SCENARIO DEFINITIONS



For each of these it is necessary to indicate the output (from those configured) and the activation type:

- **0/100**, percentage value for the dimmer outputs or analogue outputs of a Flex5 expansion.
- **ON**, command that activates the output or changes the activation status if the output is a "switching" type output.
- OFF, command that deactivates the output
- Force ON, command that activates the output
- Toggle, command that changes the activation status of the output

From the system tree menu on the left, select the event that is to be assigned to the scenarios on the respective "Programming" page on the right.

SCENARIOS ON EVENTS

The "Output scenarios" section provides two programming fields for the selection of the scenarios, one relating to activation of the event and the other to its restoral.

Programmable events 7-11-3

A group of events is available for installer programming. Event activation and restoral depend on a combination of other control panel events based on logical operations, counters and timers.

On account of their enhanced flexibility, special attention is required during the programming and testing phases of the programmable events. The effects of the programmable events must always be rigorously tested.

Each programmable event consists of a structure of mathematical-logical operations, counters and timers. The programming structure consists of:

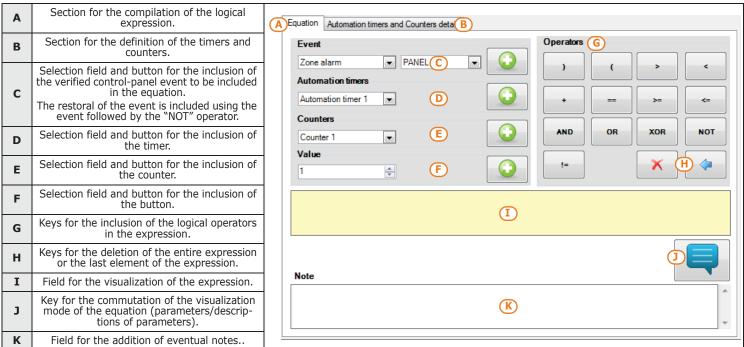
- 10 programmable events for SmartLiving 505 and 515 control panels, 30 for SmartLiving 1050 and 1050L and 50 for SmartLiving 10100L
- 40 timers
- 10 counters

Via PC

This programming process can be done only via the SmartLeague software programme. Select a programmable event from "SmartLiving System - Programmable event" from the tree menu on the left, then go to the "Programming" template on the right. The key (next to the data transfer buttons) opens a window which will allow you the define the event. This window is divided into two sections:

- Equation
- · Timers and counter details

Table 7-11: Programmable event



The logical expression of the event includes various parameters, which may have a "real" value (either "1" or "active" - as in the case of a verified event) or a "false" value (either "0" or "not active" - as in the case of a restored event):

EQUATION



A timer is a logical expression element (it may have an "active" or "non active" value). It is characterized by an interval, therefore, you must specify an interval (in seconds) for each timer you wish to include.

You can select up to four "Start events" (i.e. control panel events which trigger the timer) and up to four "Reset events" (i.e. control panel events which interrupt the timer). You can specify the "Edge" for each of the eight events, that is, the status passage of the selected event ("Activation", "Reset" or "Both").

The last two options allow you to choose when the timer will be "active":

- **Timer active on Start event**. The timer will become "active" on start, that is, when a start event occurs, and will remain "active" for the sat time. The timer will become "non active" when the set time expires or when a reset event occurs.
- **Timer active with delay**. The timer will remain "non active" on start, that is, when a start event occurs and will remain "non active" for the specified time. The timer will become "active" when the specified time expires.

A timer with the "timer active with delay" option enabled will remain "active" until a reset event makes it "non active" again.

Note

COUNTERS

TIMFRS

A counter is a logical expression element. It is characterized by an increasing value ("Count"). The counter will have a "non active" value until it reaches the set value, which will take the counter to the "active" value.

You can select up to four "Start events" (i.e. control panel events which increase the counter value) and up to four "Reset events" (i.e. control panel events which annul the counter). You can specify the "Edge" for each of the eight events, that is, the status passage of the selected event ("Activation", "Reset" or "Both").

It is necessary to define an "Autoreset" time that will zero the count when, between two successive increases, a superior time elapses. If you do not desire an "Autoreset" time, you must set the time at "65535" (already set at default), in order to ensure that the count never expires.

You should not set an "Autoreset" value of less than 5 seconds.

Note

Once the event programming process is complete and the event is sent to the control panel, the event programming values will be checked for errors.

If you wish to generate an alarm (i.e. activate sounderflashers and dialer calls) when only two PIRs (DET1 and DET2) go into alarm status within a pre-set time.

T0000; timer 1 will activate when the "Zone alarm DET1" Start event activates for 30 seconds
T0001; timer 2 will activate when the "Zone alarm DET2" Start event activates for 30 seconds

- Both conditions must occur together (AND)

T0000 AND T0001

- You must set the activation of the sounderflasher and dialer calls on a similarly-configured programmable event.
- If the programmable event activates an on-BUS sounderflasher, associate its deactivation with an

If you wish to activate an output for 40 seconds when key 17 is used to arm partition 1, and to disarm and the same output when the partition disarms.

- T0000; associate timer 1 with the activation of the Start event of key 17 recognition T0000; timer 1 with a 40 second timeout, "timer active with delay" option enabled
- T0000; associate timer 1 with the restoral of the reset event of partition 1
- Programmable event 1 must be programmed as:

- Select the output you wish to activate in concurrence with the programmable event
- If the programmable event activates an on-BUS sounderflasher, associate its deactivation with an event.

If you wish to receive a telephone call when a zone q, which belongs to partitions 1 and 2, is violated and one of the two partitions is armed

The automation zone q always generates the zone alarm event (even when the partitions are disarmed). However, the programmable event will occur only when the zone q is in alarm status and at least one of the two partitions is armed.

- Configure zone q as "automation" belonging to partitions 1 and 2 Remove all the outputs and phone calls associated with the "Alarm zone q" event The programmable event must be programmed as "Alarm zone q" AND ("Partition 1 armed in away mode" OR "Partition 2 armed in away mode"):

E0010 AND (E0790 OR E0791)

Associate the programmable event with the telephone call you wish to receive

If you wish to activate a telephone call after 3 consecutive wrong code entries (with a maximum of 120 seconds between each entry).

- C0000; counter 1 will activate on activation of the "False code" Start event, with a count of 3, 120 second autoreset time
- The programmable event must be programmed as:

C0000

Associate the programmable event with the telephone call you wish to receive

EXAMPLES



If you wish to activate a telephone call and output when at least two detectors out of 5 go into alarm status.

• The programmable event must be programmed as ("Alarm zone 1" + "Alarm zone 2" + "Alarm zone 3" + "Alarm zone 4" + "Alarm zone 5")>=2

$$(E0000 + E0001 + E0002 + E0003 + E0004) >= V0002$$

 Associate the programmable event with the telephone call you wish to receive and the output you wish to activate.

Timer 7-12

This programming section deals with the 10 system Timers.

Each timer can be programmed to manage:

- the partitions that codes and keypads belong to and have access to the programming process of the timers via the user menu.
- two scheduled activation times ("ON") for each day of the week.
- two scheduled deactivation times ("OFF") for each day of the week.

The SmartLeague software program will allow you program up to 15 exceptions.

A timer can be associated with a:

- **Partition** if a partition is associated with a timer which controls automatic-arming operations (refer to *paragraph 5-4 Activations* in the *User's Manual*), it will arm when the timer switches ON and disarm when the timer switches OFF.
- **Code** if a code is associated with a timer, it will be enabled to operate the system when the timer switches ON, and disabled when the timer switches OFF.
- **Key** if a key is associated with a timer, it will be enabled to operate the system when the timer switches ON, and disabled when the timer switches OFF.

In order to associate timers with any of the above-mentioned objects, it is necessary to access the respective control-panel programming section.

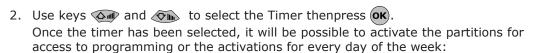
The timers must be enabled/disabled by the user (refer to paragraph 5-4 Activations in the User's manual).

On exiting the programming session (via keypad, computer or modem) all the timers will be enabled automatically. Therefore, if it will be necessary to disable the timers as required.

Via Keypad

1. Accessing the "Timers" section:

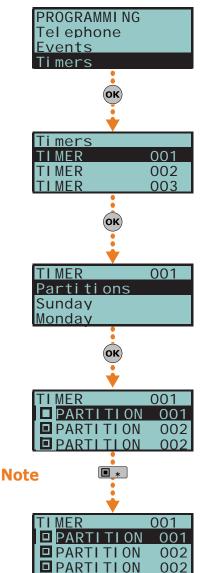
Type-in Code (Installer PIN) ок, PROGRAMMING Timers ок).



- 3. Select the "Partitions" option and press $\overline{\text{OK}}$.
- 4. Select the partitions with access and enable or disable them using $\blacksquare *$ and $\square *$.
- 5. Press (ok) to confirm and exit.
- 3. Use and to select the day of the week.
- 4. Select an activation or a restoral of the timer.
- 5. Set the selected time (expressed in hours and minutes) by means of keys and then, using keys and select the number.
- 6. Press **OK**) to confirm and exit.

It is also possible to programme timer activation or restoral only. If you do not wish to programme the timer activation or restoral setting, enter "--:-" in the field you do not wish to program.

Note





Via PC

Select an item from "SmartLiving System - Timers" from the tree menu on the left, then go to the "Parameters settings" template on the right:

The SmartLeague software programme allows you to set up 15 setting exceptions for each timer. Each "timer exception" allows you to define different On and Off times for the selected interval (1 or more days, 1 week, etc.). The pre-set times will be applied for the entire interval. The system does not accept intervals which go over the end of the year. Therefore, it is impossible to program an interval such as 12th December to 5th January. In such situations, you must program 2 "timer exceptions", one from 12th to 31st December and the other from the 1st to 5th January, both with the same On and Off settings.

The exceptions have priority over the days of the week. For example, If a "timer exception", lets say 1st May, falls on a Tuesday the settings programmed for 1st May will be applied.

The exceptions cannot be programmed via keypad.

Note

Partitions

This programming section deals with the system Partitions and the respective options and parameters.

Via Keypad

1. Accessing the "Partitions" section:

Type-in Code (Installer PIN) (OK), PROGRAMMING Partitions (OK).



2. Use keys and to select the partition then press (or).

Description

This is the editable partition label (description).

Exit time

A period, expressed in minutes or seconds, during which the user must LEAVE the partition after arming the system (see the "info" box). If you set "0" in this field, there will be no Exit time (delay), therefore, any delayed zones, which belong to the partition, will generate alarms if they are not in standby status when the system arms.

Entry time

A time (expressed in minutes or seconds) the system allows the user to disarm the partition after violation of a delayed zone (for example, after opening the front door). If the system is not disarmed within the set time it will generate an alarm (see "info" box). If you set "0" in this field, there will be no Entry time (delay), therefore, any delayed zones will generate alarms instantly if they are violated when the system is armed.

Entry time 2

This is the second Entry time (delay).

Pre-arm time

This is the period (expressed in minutes) before an automatic arming operation (see "info" box).

In order to comply with EN50131 instructions, the "Pre-arm" time must be set at a value that is not "0".

Patrol time

An "Inspection" period (expressed in minutes) which allows patrol-key/code holders (security staff, night watchmen, etc.) to check the premises (see "info" box).

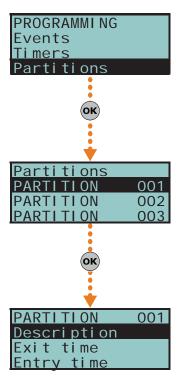
All the above-mentioned "times" can be programmed as follows:

- 1. Use keys and on to choose whether to indicate the time in seconds or minutes (see note opposite).
- 2. Use keys igoriangle and igoriangle to select the field you wish to change, then use the number keys (1,, etc.) to edit the number.

Use keys and to increase or decrease the number.

3. Press (ok) to confirm and exit.

7-13



If this value is expressed in minutes, there is an error margin of 1 minute (for example, if you set 5 minutes, the period can vary between 4 and 5 minutes).

or



Timers

Select the timer you wish to associate with the "auto-am" operations.

Remember to enable auto-arm partition in the section:

User menu, Activations (OK)

Note

Forced auto-arm operations may occur, generated by events active at the time of the auto-arm operation.

Options

- **Auto-resetMemory** if enabled by means of the ***** key, each partition arming operation will reset the partition alarm/tamper memory automatically.
- **Auto-arm STAYmode** if enabled by means of the key, the partition will arm in Stay mode at the pre-set auto-arm time. If disabled by means of the key, the partition will arm in Away mode at the pre-set auto-arm time.
- StopTelOn Disarm if enabled, the call queue will clear when the partition disarms.

Via PC

Select an item from "SmartLiving System - Partitions" from the tree menu on the left, then go to the "Parameters settings" template on the right.

User Codes

7-14

This programming section deals with the user code options/parameters.

The user code PINs must comprise 4, 5 or 6 digits. The PIN of user code n. 1 is "0001" at default. The PINs of the successive user codes are "0002", "0003", etc.

Via Keypad

1. Accessing the" Codes" section:

Type-in Code (Installer PIN) (OK), PROGRAMMING Codes (OK).

2. Use \bigcirc and \bigcirc to select the code then press \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc

Description

This is an editable programming field for the code user's name.

Partitions

Select the partitions the user code is assigned to. Press \blacksquare_* , to enable the partition and \square_* to disable it.

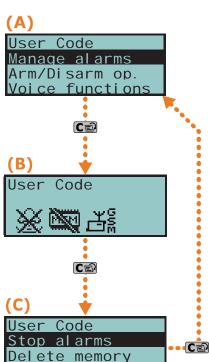
Options

Use $\blacksquare *$ and $\square *$ to enable/disable the code options.

- Partition filter if this option is enabled, the code will be able to change the parameters only of codes with a lower rank in the system hierarchy whose partitions are amongst the partitions assigned to the code being programmed. For example, if a code is configured as "Master" with "Partition filter" and is assigned to partitions 1, 3, 5 and 7, it will be able to enable/disable or change the PIN of a "User" code assigned to partitions 1 and 5 but not the PIN of a "User" code assigned to partitions 1, 2, and 3.
- Text menu and User menu the combination of these two options allows immediate visualization of the menu screens on the keypad displays after acceptance of a valid user PIN. Refer to the following table.

Table 7-12: Combinations "text menu" and "user menu"

Case	Text menu	User menu	Description
A	Disabled	Enabled	Accesses the user-menu (shown as a list of operations the user is enabled to perform); at this point the user can scroll the list using and and and select the required option.
В	Disabled	Disabled	Visualization of the user-icons associated with function keys [F1 Fn],, [F4 [0]]; at this point the user can press the required function key and activate the associated shortcut.
С	Enabled	Disabled	Shows the descriptions of the personalized user-icons associated with function keys. The descriptions of the shortcuts are shown in place of their associated icons. The user can use and and to scroll the list of shortcut descriptions and select the desired shortcut, which can be activated by means of the key.
D	Enabled	Enabled	The same as "C"



Nexus status



In all methods of access (A, B and C), the key allows you to access/view the other cases in succession, see figure.

Note

- AnnounceShortcut if enabled on a voice capable keypad, the descriptions of all
 the shortcuts assigned to the code and associated with the number keys will be
 announced after acceptance of the entered PIN.
- Remote access if enabled, the code PIN can be used to operate the system from any remote telephone.

If the code PIN is entered on a remote telephone keypad, only the shortcuts associated with keys 0 to 9 can be used to:

- •• Arm/Disarm
- Stop alarms
- Clear call queue
- Delete memory
- • Activate Output
- Deactiv. Output
- •• Listen-in
- Arming status

Any other type of command will have no effect.

- Patrol if enabled, the code will be able to disable the system for the pre-set "Patrol time".
- **Fixed length** if enabled, after typing in a PIN and without pressing the ok key, the user will be able to activate the shortcut associated with function key "F12", programmed via the "F1/4KeyShortcuts", described later.

If this shortcut is number 1 ("Arm/disarm") and all the partitions assigned to the user code in question are disarmed, the command will arm them, otherwise it will disarm them.

A user code with this option enabled has access to its own menu only after pressing the **ok** key and PIN entry.

F1/4KeyShortcuts

This section allows you to programme up to 12 shortcuts associated with keys **F1** Fn, ..., **F4 1** After valid PIN entry, the keypad will show the icons that correspond to keys **F1** Fn, ..., **F4** and which are associated with these shortcuts. Press the corresponding key to activate the respective shortcut.

0/9 Key shortcuts

This section allows you to program up to 10 shortcuts associated withkeys $\mathbf{0}_{-}$, ..., $\mathbf{9}_{\text{wxyz}}$. After PIN acceptance, the code user can activate the shortcut by pressing the respective number key.

To assign the shortcuts to the function keys, work through the following steps.

- 1. Use keys and to select the key you wish to associate with the shortcut then press ok.
- 2. Press **ok** then, using keys **and oh**, select from the "Type" list the shortcut you wish to associate with the function key.
- 3. Press (ok) to confirm and exit.
- 4. If the shortcut is associated with "Arm/Disarm" operations, the application will ask you to select a scenario. If the associated shortcut is "Activate output" or "Deactiv. output", the application will ask you to select the output.

Assigned outputs

This section allows you to enable/disable the outputs the code user can control manually via the:

User menu, Outputs ON/OFF (OK).

- 1. Use keys and to select the desired output.
- 2. Use keys and to enable/disable manual control of the output for the code concerned.
- 3. Press **OK** to confirm and exit.

It is possible to program a certain number of outputs which can be activated or deactivated via keypad without entering a user code. For further details refer to paragraph 7-28 Activating outputs without authentication.

Timers

This section allows you to assign a timer to the code. The code will be operative only at the pre-set times.



Type

This section allows you to assign a level (rank) in the system hierarchy to the selected code (refer to paragraph 1-6-2 User).

The default level of code number 1 is "Master"; the default level of all the other codes is "User".

Note

Enable/disable

This section allows you to enable/disable access to the various sections of the User Menu.

For further details regarding the sections of the User Menu, refer to the User Manual.

The programming steps are identical to those of "Outputs ON/OFF".

Via PC

Select an item from "SmartLiving System - Users - Codes" from the tree menu on the left, then go to the "Parameters settings" template on the right.

Installer codes

This section allows you to program the functions of the 2 installer codes. The user code PINs must comprise 4, 5 or 6 digits.

Via Keypad

Type-in a valid code (Installer) ок, PROGRAMMING Installer code ок.

ChangeInst. PIN 1

For security reasons, you must change the PIN of the primary installer code (type-in twice). The PIN is "9999'' at default.

ChangeInst. PIN 2

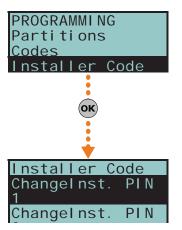
For security reasons, you must change the PIN of the secondary installer code (type-in twice). The PIN is "9998" at default.

Inst.code 2

Use keys $\blacksquare *$ and $\square *$ to enable/disable the sections of the installer menu the secondary installer code can access.

In this section, the secondary installer code can access Inst.CodePIN2 section only.

7-15



Note

Keys

This section will allow you to programme the parameters of the digital keys and Air2-KF100 wireless keyfobs (for details regarding the wireless keyfobs, refer to the Air2-BS200 Transceiver Installation guide).

Via Keypad

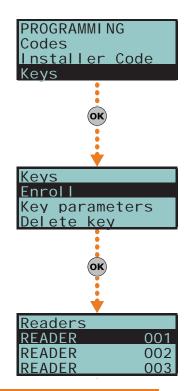
Type-in Code (Installer PIN) (OK), PROGRAMMING Keys (OK).

Enroll

Each digital key and wireless keyfob must be enrolled separately on the system in order to allow it to operate. The enrolling procedure is as follows.

- 1. View the readers in the control panel configuration. Select the reader you wish to use for the enrollment of the key/s, then press **ok**. If you select a reader simulated by the Air2-BS200, a "W" will be shown at the end of the description.
- 2. Select the digital key you wish to enroll and press **ok**. If you are using an nBy/S or nBy/X reader, all the LEDs will begin to blink to indicate that it is ready to enroll the key.
- 3. The keypad will indicate the current description of the digital key concerned.
- 4. Hold the digital key in the vicinity of the reader and then move it away. For Air2-KF100 wireless keyfobs, press simultaneously keys 3 and 4.
- 5. The keypad will emit a beep to confirm that the digital key has been successfully enrolled. If you are using an nBy/S or nBy/X reader, the red LED will go On. The digital key description will go to the next key automatically. This method (from step 4.) allows you to enroll as many digital keys as the system requires.

7-16





6. Once you have completed the enrolling process, press **Esc** or **Cal**.

All the enrolled keys will be enabled to operate the system immediately.

Note

Key parameters

This section allows you to programme all the parameters of the selected digital key.

- **Description** editable field for the name of the digital key user.
- **Partitions** the partitions the digital key is assigned to and therefore can control.
- Options activated by means of keys * and □ *, are:

Table 7-13: **Key options**

Option	If enabled	If disabled		
Patrol	The digital key will be able to disarm specific partitions for patrol purposes.			
Maintenance	The digital key will be able to block alarm/tamper outputs for the time that it is held in front of a reader.			
Use keyShortcuts	If a digital key is held in the vicinity of a reader, only the digital key shortcuts will be indicated, and not the reader shortcuts.	If a digital key is held in the vicinity of a reader, only the reader shortcuts will be indicated and, if configured, the first shortcut programmed on the digital key.	These options do not apply to Air2-KF100	
DisarmNotAllo wed	If a digital key is held in the vicinity of a reader when partitions are armed, the Disarm option will be inhibited (all LEDs Off).	If a digital key is held in the vicinity of a reader when partitions are armed, the Disarm option will be allowed (all LEDs Off).	wireless keyfobs.	

- **Timers** this section allows you to associate a timer with the digital key. The key will be able to operate the system only when the associated timer is "On".
- **Shortcuts** this section allows you to programme up to 4 shortcuts (F1, F2, F3, F4) for each key.

The shortcut associated with the key can be one of the following types:

- •• None
- Arm/disarm
- Stop alarms
- Clear Call Queue
- Delete memory
- Activate OutputDeactiv. outputs
- Overtime
- Teleservice reg.
- Voice guide

If a digital key is held in the vicinity of an nBy/S or nBy/X reader, the LEDs will run through a series of visual signals with the following meanings:

Table 7-14: Readers - LED visualization

LED indicator sequence		Option: Use keyShortcuts		
		enabled	disabled	
1	Red LED On	Digital key shortcut F1	shortcut associated with the red LED on the reader	
2	Blue LED On	Digital key shortcut F2	shortcut associated with the blue LED on the reader	
3	Green LED On	Digital key shortcut F3	shortcut associated with the green LED on the reader	
4	Yellow LED On	Digital key shortcut F4	shortcut associated with the yellow LED on the reader	
5	All LEDs On	This sequence does not occur Digital key shortcut F1		
		Option: Disa	rmNotAllowed	
6	All LEDs Off	enabled	disabled	
		No request to arm ALL the partitions common to both the key and reader.	Request to arm ALL the partitions common to both the key and reader.	

Delete key

This section allows you to delete enrolled digital keys from the system configuration. The enrolled digital keys can be found in the list with the \blacksquare symbol.

- 1. Use keys and to select the enrolled digital keys you wish to delete.
- 2. Press ** to delete the selected digital key.
- 3. Press (oK) to confirm and exit.





Enable/disable

This section allows you to enable/disable the digital keys:

- 1. Use keys and and to select the digital key you wish to enable/disable.
- 2. Use keys and to enable/disable the selected digital key.
- 3. Press **OK**) to confirm and exit.

Via PC

Select an item from "SmartLiving System - Users - Digital keys" from the tree menu on the left, then go to the "Parameters settings" template on the right.

Arming scenarios

7-17

This section allows you to configure up to different 30 arming scenarios.

Via Keypad

1. Access "Arming scenarios" section.

Type-in Code (Installer) (OK), PROGRAMMING Arming scenarios (OK)

2. Use keys and to select the scenario thenpress or.

Description

Editable field for the description of the scenario.

Tcon

This section allows you to select the icon you wish to assign to the scenario, simply by indicating the icon number (refer to *Appendix B, Shortcuts at default*):

- 1. Use keys and to scroll across the digits.
- 2. Use the number keys (1, etc.) to edit the number.
- 3. Press (oK) to confirm and exit.

The "Arm" shortcut associated with function key $\texttt{F1}_{\texttt{Fn}}$, ..., F4 will visualize the icon selected in this section.

Partitions

This section allows you to configure the scenarios of all the partitions managed by the various models.

- 1. Use keys \bigcirc and \bigcirc to select the partition, then press \bigcirc \bigcirc \bigcirc \bigcirc
- 2. Use keys and to select the operating mode (Away, Stay, Disarm, etc.).
- None the current operating mode of the partition will not be changed.
- Away the partition will arm in Away mode (interior and perimeter).
- Stay the partition will arm in Stay mode (perimeter only).
- Instant the partition will arm in Instant mode (perimeter only with zero delay).
- Disarm the partition will disarm.

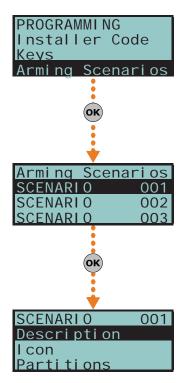
Output

Each scenario, when applied, can activate one output (via keypad, at reader, over-the-phone, etc.). Use and to select the output then press ok).

It is possible to use a scenario to activate an output. This can be done through the Scenarios section by simply leaving the respective "Partition" programming fields free (None), thus allowing the association of the Icons with the outputs.

3. Press or to confirm and exit.

Select an item from "SmartLiving System - Scenarios" from the tree menu on the left, then go to the "Parameters settings" template on the right.



Note

Via PC

PROGRAMMI NG

Armina Scenarios



Shortcuts

7-18

Keys

This section allows you to setup all of the available shortcuts.

Via Keypad

1. Accessing the "Shortcuts" section:

Type-in Code (Installer PIN) (OK), PROGRAMMING Shortcuts (OK).

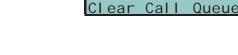
2. Use keys and to select the shortcut thenpress **ok**).

Description

This is the editable label which identifies the shortcut.

This section allows you to select the icon you wish to represent the scenario, simply by indicating the icon number (refer to Appendix B, Shortcuts at default):

- 1. Use keys (9) and (8) to scroll across the digits of the number.
- 2. Use the number keys (1,, etc.) to edit the number.
- 3. Press (ok) to confirm and exit.



Shortcuts

Arm/Disarm Stop alarms

Select an item from "SmartLiving System - Shortcut icons" from the tree menu on the left, then go to the "Parameters settings" template on the right.

Expansions

7-19

This section allows you to programme the parameters of the expansions.

Via Keypad

Type-in Code (Installer PIN) (oK), PROGRAMMING Expansions (OK).

Enable/disable

This section allows you to add/remove expansions from the I-BUS configuration, by means of keys \blacksquare * and \blacksquare #.

ChoosePeripheral

This section allows you to select an expansion and program the descriptions and the options:

- **Description** editable field for the name of the expansion.
- **Options** keys $\blacksquare *$ and $\square *$ allow you to enable activation of the expansion buzzer on activation of terminal 1 configured as an output.

PROGRAMMI NG Arming Scenarios <u>Shortcuts</u> Expansi ons Expansi ons Enabl e/di sabl e ChoosePeri pheral

Via PC

Table 7-15: Expansions - via SmartLeague software programme

Option	Part of the system	Template/section	
Enable/disable	/	Project	
ChoosePeripheral	Expansions - select the expansion	Programming	



Keypads

7-20

This section in the installer menu allows you to program the parameters of the keypads.

Not all the keypad parameters can be accessed via the installer menu. Depending on the type of keypad or programming process, it may be necessary to use the SmartLeague software program or, in the case of Alien keypads, access the appropriate section of the keypad functions.

Via Kevpad

Type-in Code (Installer PIN) (oK), PROGRAMMING Keypads (OK).

Enable/disable

This section allows you to add/remove expansions from the I-BUS configuration, by means of keys $\blacksquare *$ and $\square *$.

ChoosePeripheral

This section allows you to program the various options of the selected keypad.

- Wireless This section allows you to start the enrolling process of the wireless keypad (future use)
- Temp. hysteresis. this parameter allows you to enter the hysteresis value for the "Air conditioning" function on the selected keypad (if enabled).
 The entered value must be expressed in °C decimals (from a minimum of 0 to a maximum of 4).
- **Description** editable field for the name of the digital key user.
- **Partitions** use $\blacksquare *$ and $\square *$ to enable/disable the keypad on the system
- Options:
 - •• Temperature off if this option is enabled, the room temperature will be flashed in alternation on the display. This option is valid for keypads with built-in temperature sensors only.
 - •• SilentExitTime enables/disables the buzzer during partition Exit Time.
 - •• SilentEntryTime enables/disables the buzzer during partition Entry time
 - •• SignalExitTime enables/disables the buzzer when terminal T1 on the keypad is activated as an output.
 - •• Disable bell enable/disable the buzzer that signals violation of the bell zone relative to the keypad in question.
 - •• LED Off in standby if enabled, this option switches of the relative LEDS after at least 40 seconds of inactivity on the keypad.
 - •• NO Superv. WLS If enabled, this option inhibits fault signalling in the event of loss of wireless devices.

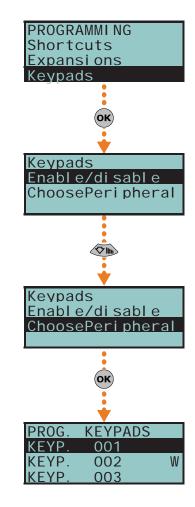
This option is co-related to the control panel parameter "Wireless Superv." (refer to paragraph 7-27 Other parameters).

- •• Disable tamp. WLS If this option is disabled, open/dislodgement tamper on Air2 devices will not generate the respective events.
- **F1/4KeyShortcuts** setting of the shortcuts assigned to keys **F1**, ..., **F4**. If you are programming an Alien keypad, this shortcut refers to the position in the list available in the "Scenarios" section of the Alien keypad you are working on. Function keys F1 to F12 must be selected separately and programmed as follows:
 - •• Type this is the shortcut action which can be selected from those available (refer to Appendix B, Shortcuts at default). It is necessary to programme an extra parameter for some shortcuts:
 - "Arm/disarm", this parameter refers to one of the 30 scenarios
 - "Activate outputs", this parameter refers to the output that will be deactivated
 - "Deactiv. outputs", this parameter refers to the output that will be deactivated

The "Listen-in" and "Arming status" will have no effect if the respective command is entered at a keypad.

If you are programming an Alien keypad, the only type of shortcut that functions is "Arm/disarm".

- •• Options activated by means of keys * and □ *, are:
 - Requires code if enabled, the system will ask for user-code entry before activating the shortcut. If the system recognizes the entered user code, it will activate the shortcut command.
 - SecurityRiskCode if you enable this option, you must also enable the "Requires code" option. When this option is enabled and the selected shortcut involves a scenario that completely disarms a partition, or switches a partition from Away mode to Stay mode, the security of your system will obviously be at risk, therefore, the system will request code entry.



Note

CONTINUE?OK=YES



- Confirm - if enabled, the system will ask the user for confirmation (press (ok)) before activating the function-key shortcut. This method draws the users attention to requested operations that do not require codes, and thus avoids accidental arm/disarm operations, etc.

This option is not available for Alien keypads.

It is possible to program a certain number of outputs which can be activated or deactivated via keypad without entering a user code. For further details refer to paragraph 7-28 Activating outputs without authentication.

Via Alien keypad

Access the "Settings" section by tapping the button order to access the "Alien" section.



type-in a valid user code in

The complete description of the parameters in this section can be found in paragraph paragraph 2-3 Keypads in the user manual.

Via PC

Table 7-16: Keypads - via SmartLeague software programme

Option	Part of the system	Template/section	
Enable/disable	/	Project	
ChoosePeripheral	Keypads - select the keypad	Programming	

The process of programming the graphic interface and maps on the Alien keypad must be done through the SmartLeague software program.

Once you have selected the keypad from the system tree menu on the left, select "Touch keypad" as type of keypad. The "General" section, which is the same for all keypad types, appears with the following sections:

- "Alien graphics", for the graphic interface setup (backgrounds, buttons, icons)
- "Alien maps", for the configuration of the graphic maps accessed by means of the \bigcirc key in the "Maps" section of the "APPs" .

In order to change the Alien parameter settings, your computer must be connected to the USB port of the keypad.

For a complete description of the programming process of the Alien keypad, refer to the SmartLeague software manual.

Readers

Via Keypad

This section allows you to programme the reader options.





If it is a reader simulated by the Air2-BS200, a "W" will be shown at the end of the description.

ChoosePeripheral

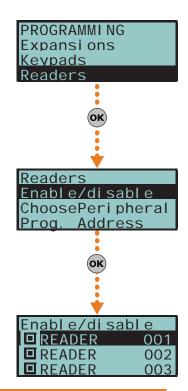
This section allows you to program the various options of the selected reader.

- **Description** editable field for the name of the digital key user.
- **Partitions** use * or □ * to enable/disable the reader on the system partitions.
- Shortcuts this section allows you to programme the shortcuts associated with the 4 differently-coloured LEDs on the reader. In order:
 - Red LED shortcut
 - Blue LED shortcut
 - Green LED shortcut
 - Yellow LED shortcut

The shortcut associated with the LED can be one of the following types:

- None
- Arm/Disarm
- Stop alarms
- Clear call queue
- Delete memory

7-21





- • Activate Output
- Deactiv. output
- Overtime
- • Teleservice req.
- View faults

Prog. Address

This section allows you to activate the address programming phase for nBy/S and nBy/X readers.

Follow the instructions for addressing readers in paragraph 3-3-5 Addressing nBy readers.

Via PC

Table 7-17: Readers - via SmartLeague software programme

Option	Part of the system	Template/section	
Enable/disable	/ Project		
ChoosePeripheral	Proximity readers - select the reader	Programming	
Prog. Address	Proximity readers	Programming	

Sounders

7-22

This section allows you to programme the parameters of the sounderflashers connected to the I-BUS and enroll wireless sounderflashes.

Wireless sounderflashers can be programmed via the SmartLeague software programme only.

Via Keypad

Type-in Code (Installer PIN) (OK), PROGRAMMING Sounders (OK).



Enable/disable

This section allows you to add/remove sounderflashers from the I-BUS configuration, by means of keys $\blacksquare *$ and $\square *$.

ChoosePeripheral

This section allows you to programme the various options of the selected sounderflasher.

- Wireless this section allows you to start the enrolling process of the wireless keypad.
- **Description** editable field for the name of the sounderflasher.

Via PC

Table 7-18: Sounderflashers - via SmartLeague software programme

Option	Part of the system	Template/section	
Enable/disable	/	Project	
ChoosePeripheral	Sounders - select the sounder/flasher	Programming	

Keypads Readers Sounders ОK Sounders Enabl e/di sabl e ChoosePeri pheral

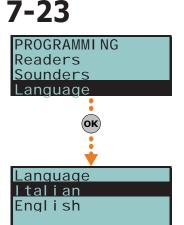
PROGRAMMI NG

Language

Via Keypad

This option allows you to select the language the system uses in the User and Installer menus for the descriptions of events, faults, etc. However, the edited descriptions of the various system elements such as: zone, partitions, outputs, codes, descriptions will remain unchanged.

Use keys and to select the desired language and ok to confirm.





Messages

7-24

This section allows you to record (and playback) all the voice messages. The Table in the Appendix shows all the pre-recorded messages provided by the SmartLogos30M voice board.

Via Keypad

1. Accessing the "Messages" section:

Type-in Code (Installer PIN) ок, PROGRAMMING Messages ок.

2. Use keys and to select the field you wish to change, then use the number keys (1.,, etc.) to edit the number.

or

Use keys and to increase or decrease the number.

- 3. Press **(ок**).
- 4. Use keys \bigcirc and \bigcirc to select the instructions for the selected message then press \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc

Record

Before recording a voice message, you must first select:

- No Message no recording or playback
- High quality for superior recording/playback quality
- Average quality for good recording/playback quality (similar to phone-line quality).

High quality messages occupy twice the memory space of average quality messages of the same length.

The recording will start when **ok** is pressed, the running recording time (seconds) will be indicated by a second-counter on the keypad display. If you wish to interrupt the record/playback operation manually press **ok**, otherwise, it will end automatically when the pre-set time-out expires.

Play

Message playback section. You can adjust the volume during the playback phase using keys and .

Delete

Delete message section. The control panel will ask for confirmation before deleting the message, by means of the **OK** key.

Via PC

The Parameters settings template of the "SmartLiving System - Voice messages" will allow you to:

- · upload all the voice messages
- download all the voice messages
- · format voice board

Select an item from "SmartLiving System - Voice messages" from the tree menu on the left, then go to the "Programming" template on the right and program the selected message.

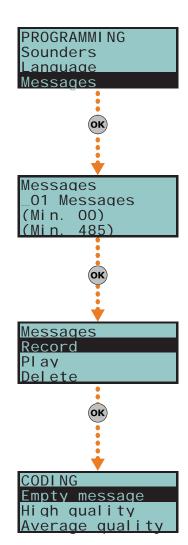
Default settings

This section allows you to reset to default settings all the control panel parameters, auto-learn zone balancing values, auto-enroll I-BUS peripherals and restore the event codes of CONTACT-ID reporting format.

Reset to factory default can be carried out at a keypad via the installer menu (details follow), or via the control panel PCB, using the following procedure.

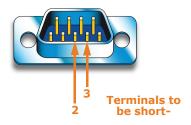
- 1. Disconnect all power to the control panel (mains 230V~ and backup battery).
- 2. Short-circuit terminals "2" and "3" of the serial cable connector (refer to *Table 2-8: Mother board description of parts, I*).
- 3. Power-up the control panel and maintain the short-circuit condition on terminals "2" and "3" for at least 5 seconds.
- 4. Restore the short-circuit condition.

Record 0034 sec.



7-25

Serial port





Within 70 seconds the control panel will reset to default settings, re-enroll all the peripherals currently on the I-BUS and, if a keypad is connected, will ask you to select the Language.

Reset to factory default will not clear the events log.

Via Keypad

1. Access the "Default settings" section:

Type in Code (Installer) (OK), PROGRAMMING Default settings (OK)

2. Use keys and to select the function thenpress **ok**:

Factory data

If you select this option, the control panel will reset entirely to default settings.

This operations deletes all the previously programmed parameters.

Learn zone bal.

If you select this option, the control panel will learn (save to memory) automatically all the balancing settings of all the zones (Patent Pending).

The zone-balancing options are:

- Normally Open
- Normally Closed
- Balancing (Single balancing)
- Double balancing
- Rollerblind with EOL

The balancing settings which are not acquired accurately are:

- Rollerblind without EOL (which is classified as a normally-closed generic zone)
- Double zone without EOL (which is classified as a normally-closed generic zone)
- Double zone with EOL (which is classified as a generic zone with Double balancing)

In order to allow accurate acquisition of the balancing settings of all the zones, you must:

- •• Wire and select the balancing settings of all the zones.
- Ensure that all the zones are in standby status
- •• Select the "Learn zone bal." option.
- •• Verify that the operation has been carried properly and that all the settings are accurate (if any zones are not in standby status during this process their settings will not be acquired accurately).
- Set manually any inaccurate settings.

Autoenroll periph.

If you select this option, the control panel will enroll automatically all the peripherals it finds on the I-BUS.

CONTACTIDDefault

If you select this option, the control panel will reset to default settings all the event codes used for the CONTACT-ID protocol (refer to Appendix A, Technical terminology and Glossary).

CONT-ID enumer.

If you select this option, the control panel (after confirmation) will implement incremental numbering (from 1") in the "CCC" field of the CONTACT-ID protocol (refer to Appendix A, Technical terminology and Glossary) for the event relating to the zone.

SIA defaults

If you select this option, the control panel (after confirmation) will reset all the factory default settings on SIA parameters of all events.

DeletePrg.events

Press the **ok** key to delete all the events saved to the control panel events log (activation and restoral events):

- All outputs
- All calls
- All options

WLS data reset

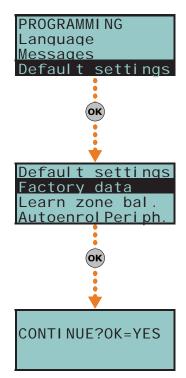
Press the (ok) key to delete all the data relating to the Air2-BS200 device.

The data relating to the wireless detectors and keyfobs will not reset on the control panel, nor will the devices simulated by the Air2-BS200 transceiver be deleted from the configuration.

3. The control panel will ask for confirmation of this command (press $(o\kappa)$).



ATTENTION!





Via PC

The SmartLeague software programme allows you to reset the control panel default values only for the following parameters relative to the programming of events:

- digital dialer parameters
- "CCC" field of CONTACT-ID protocol of the zones
- phone calls on activation and restoral
- outputs on activation or restoral
- message playback on keypads on activation or restoral
- · SIA protocol parameters

Table 7-19: Factory default settings - via SmartLeague software programme

Option	Part of the system	Template/section	
CONTACTIDDefault	SmartLiving System - Events	Programming - Maintenance events	
CONT-ID enumer.	SmartLiving System - Terminals	Programming - "Rename the CCC in sequential mode"	
DeletePrg.events	SmartLiving System - Events	Programming - Maintenance events	

User functions

7-26

This section describes the functions the installer has in common with the user.

Via Keypad

1. Access the "User functions" section:

Type-in Code (Installer) (OK), PROGRAMMING User functions (OK).



Activations

This section provides information regarding the "Cloud enrollment" option which allows the SmartLiving panel to access INIM Electronics cloud service.

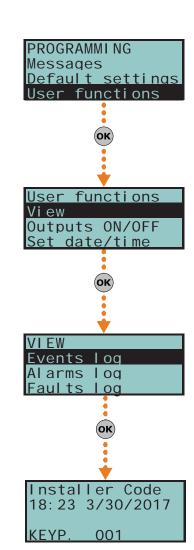
View

- Events log allows you to view all the events saved to the log.
- Alarms log allows you to view all the events relating to zone/partition alarm and tamper saved to the log.
- Faults log allows you to view all the fault events saved to the log.
- Arm/Disarm ops. allows you to view all the arm/disarm operations saved to the log.

Use key or or to scroll the chronological events list. For some events, key allows you to view the partitions details. For example, the details of an "Arm" command will show the code and keypad concerned and, if you press , the list of partitions

involved.

- Nexus status allows you to view (on the display) the following parameters of the Nexus device:
 - 1° line: GSM network provider (Vodafone, etc.), on the left side and BUS connections on the right side of the string:
 - if nothing appears, it means that the Nexus/G is connected to the BUS
 - if the letter ``G'' appears, it means that the Nexus/G is connected to the BUS and that the GPRS service is available
 - if the letter ``C'' appears, it means that the Nexus/G is connected to the BUS and that a teleservice request (TCP connection) or SIA-IP event report is being sent
 - if "--" appears, it means that the Nexus is connected to the BUS
 - 2° line: GSM signal reception (value between 1 and 100)
 - 3° line: balance, at the last operation (expressed in the local currency)
 - 4° line: faults present access the "View-Faults" section for details.
- System voltage allows you to view the voltage the system uses.
- **Zone status** allows you to view the status of all the zones. Use keys and to scroll the list of accessible zones. The display shows the following zone parameters:
 - 1° line: zone description
 - 2° line: zone status ("Standby", "Alarm", "Short", "Tamper"), its activation status ("unbypassed" capable of generating alarms, or "bypassed" incapable of generating alarms)





3° line: various indications depending on the device type:

- wired zone; resistance value reading expressed Ohm
- wireless zone; wireless signal reception level
- level of smoke present in the smoke detection chamber of the Air2-FD100 smoke detector, expressed in mdB/m

 4° line: level of contamination present in the smoke detection chamber of Air2-FD100 smoke detector (%)

It is advisable to clean the detector when the value exceeds 90%.

Note

- Faults allows you to view any current faults.
- Panel version allows you to view the firmware version and model of the SmartLiving control panel.

Outputs ON/OFF

Allows manual activation/deactivation of the outputs by means of keys • and •

Set date/time

Allows you to set the date and time of the control panel.

- 1. Use key or to select the programming field you wish to change (hour, minutes, etc.).
- 2. Use keys and to change the selected field.
- 3. Press **OK** to save and exit.

Via PC

The SmartLeague software programme provides a section which, during a connection to a SmartLiving control panel, allows you to monitor the entire system in real time and access some of the above-mentioned parameters.

Select the **Check control panel**, **Monitoring** option from the menu bar.

A window containing various sections will open. The sections can be selected by means of tags, each referring to a different part of the system.

Table 7-20: User functions - via SmartLeague software programme

Option	Part of the system	Section of the monitoring window	Template/section
View/Log	SmartLiving System - Events log		Programming
View/Nexus status		Peripheral details - Sounder- flashers, isolators and Nexus	Nexus
View/System status		Remote keypad	Control panel status
view/System status		Power	Power supply parameters
View/Zone status		Zones	
View/Faults present		Remote keypad	Control panel status
View/Control panel version		Window heading	
Outputs ON/OFF		Zones	Outputs ON/OFF
Set date/time	SmartLiving System	SmartLiving System	Programming

Other parameters

7-27

This option allows you to programme the advanced functions of the control panel.

Via Keypad

1. Access the "Other parameters" section.

Type-in Code (Installer PIN) ок, PROGRAMMING Other parameters ок.

2. Use keys \bigcirc and \bigcirc to select the parameter then press \bigcirc :

Periodic Ev.

This options allows you to select one of the four periodic events and set the respective parameters.

Time per. Event - this parameter allows you to set the time (hh/mm), day, month
and year of the first "Periodic event" (refer to paragraph 7-11 Events).



The time/date setting of this parameter must be later than the control panel clock setting.

PeriodicInterval - this parameter allows you to set the interval between each "Periodic events" (expressed in hours). To disable the "Periodic event", set "0".

Options:

- •• Per.Ev Continuous if enabled, the system will generate the corresponding periodic event regardless of its initial date/time. The event will be generated when the programming session is exited, or when the system starts up, and will be generated continuously when the set period expires.
- •• PeriodicEv InMin if enabled, the interval (period of time) between two consecutive activations ("Period.Ev.Time") will be established in minutes and not

Mains fail.Delay

This parameter allows you to programme the delay, expressed in minutes (see note), between mains failure and the "Mains failure" fault event signal.

LocKpadMessTimes

The number of times voice messages, relating to events recorded at the keypad, will be played (only for keypads with voice functions).

The playback phase can be stopped by pressing any key. If you set a value of "255" the playback can be stopped by pressing any key, this is the only method of stopping playback.

OverThePhoneVol.

This is the volume of the voice messages over-the-phone.

Ring sensitivity

This value determines the reception sensitivity of incoming call rings. This option is useful in situations of bad reception (break up) or noisy lines.

At default this value is set at 60. Accepted values: 1 to 120.

Wireless superv.

This value determines the wireless-device supervision time. Once the pre-set time expires, the devices which do not respond will be signaled as lost. Accepted values: 12 to 250 minutes (30 minutes at default).

Tel. input gain

This value determines the volume of the incoming call signal. This option is useful in situations which require better comprehension of DTMF tones and improvement of teleservice intervention via modem.

Adj. temperature

This parameter will allow you to enter the effective value of the room temperature read by an external thermometer. This value will replace the keypad temperature reading and thus allow you to correct the temperature sensor on the keypad you are working on (valid for keypads with temperature sensors only).

The entered value must be expressed in °C decimals (for example, type in 252 if the temperature is 25.2 °C).

LowBattery delay

This parameter allows you to programme the delay, expressed in minutes, which will be applied before "LowBattery" events will be signalled.

This parameter allows you to programme the delay, expressed in seconds or minutes, which will be applied before "LineDown" events will be signalled.

All the above-mentioned parameters can be programmed as follows.

3. Use keys (and (to select the field you wish to change, then use the number keys (1,, etc.) to edit the number.

or

Use keys and to increase or decrease the number.

FaultForNotReady

This section allows you to select which events, other than zones in alarm status, will be signaled as system security-risk conditions when the partition arms.

Note

If this value is expressed in minutes, there is an error margin of 1 minute (for example, if you set 5 minutes, the period can vary between 4 and 5 minutes).

OverThePhoneVol. 00 Uni ts (Min. 010) (Max 100)

Tel. input gain 00 Uni ts (Min. 001) (Max. 120)



If this value is expressed in minutes, there is an error margin of 4 minutes (for example, if you set 7 minutes, the period can vary between 3 and 7 minutes).

Default settings

Other parameters

Other parameters

Mains fail.Delay

LocKpadMessTi mes

OK)

OK)

Peri odi cl nterval

001

002

003

Event

Periodic Ev

Periodic ev

Periodic ev.

Periodic ev.

Periodic ev

Time per.

Options

Peri odi c

<u>User functions</u>

PROGRAMMI NG



Following are the events which can be enabled/disabled by means of keys <a> and and **#**:

- Zone fuse fault
- IBUS fuse fault
- Low battery
- Mains failure
- Tel. line down
- **Jamming**
- Low battery WLS
- WLS zone loss
- Nexus fault
- Detector dusty
- Zone faults
- Sounder faults
- Power faults
- Keypad faults
- LossTamp.ongoing

The last item groups the following events:

- Panel opened
- Dislodged panel
- • Expansion tamper
- • Keypad tamper
- Reader tamper
- Sound.flash.Tamp
- Nexus tamper
- • Expansion loss
- • Keypad loss
- Reader loss
- Sound.flash.Loss
- Nexus Nexus
- Nexus LIVPWR100
- IP conn. lost
 - 4. Press (ok) to confirm and exit.

Serial number

Section for the visualization of the Control panel serial number.

Via PC



Table 7 21. Other parameters The smarteredge Software programme				
Option	Part of the system	Template/section		
Periodic ev.	Cmartliving System	Parameters settings - periodic event		
Mains fail.Delay	SmartLiving System	Parameters settings - I-BUS parameters		
LocKpadMessTimes	Keypads	Parameters settings - Keypad parameters		
OverThePhoneVol.	SmartLiving System	Parameters settings - Telephone options		
Ring sensitivity	g sensitivity SmartLiving System - Telephone Parameters settings - Telephone			
Wireless superv.		Parameters settings - Control panel parameters		
Tel. input gain	SmartLiving System	Parameters settings - Telephone options		
LowBattery delay		Parameters settings - I-BUS parameters		
LinedownDelay	wnDelay SmartLiving System - Telephone Parameters settings - Telephone dialer pa			
FaultForNotReady SmartLiving System Programming - Forced arming		Programming - Forced arming faults		

Telephone line adjustment

7-27-1

The "OverThePhoneVol." and "Tel. input gain" parameters can be used to correct the voice functions of the dialer and the DTMF tones. The values of these parameters affect each other, therefore, and a good result is always a compromise.

If you are not using a GSM interface, you should:

- Adjust one parameter at a time and carry out tests to verify the result.
- Increase/decrease the values in small steps (for example, from 25 to 22 and not from 25 to 15).
- If the DTMF tones are not recognized, or are recognized with difficulty, decrease the value of the "Volume Tel.voice" parameter (in small steps of 2 or 3 units) and verify the effect. If there is no improvement, increase the value of the "VolumeTel. In." parameter until an acceptable level is achieved.

Do not increase the "VolumeTel. In" parameter excessively, as an excessive value may cause incorrect interpretation of DTMF tones.

• If the volume of the telephone messages is low, increase the "Volume Tel.voice" (in small steps of 1 or 2 units) and verify the effect. An excessive value of the "Volume Tel.voice." parameter may cause incorrect interpretation of DTMF tones.

In most cases, the value of the "Volume Tel.voice" parameter is between 15 and 25, whereas, the value of the "VolumeTel. In." parameter is between 20 and 30.

If there is a SmartLinkAdv GSM interface, it is possible to adjust the values of incoming and of the output volume parameters of the SmartLinkAdv.

Any changes to the value of the SmartLinkAdv incoming volume parameter come into effect almost 2 minutes after the setting change, therefore, you must allow this time to pass before verifying the effect.

Note

Activating outputs without authentication

It is possible to programme a certain number of outputs which can be viewed and activated at the keypad without authentication (i.e. without entering a user code).

Access to these outputs depends on the type of keypad in use:

- for keypads with keys, you must activate the "Output control" shortcut (shortcut n.
 - 21: [] associated with one of the F1 Fn , ..., F4 🕅
- for Alien keypads, you must access the "Commands" section by tapping the button, then the "Domotics" section.



The outputs that can be activated from a keypad with the "NNN" address will be those associated with a specific user code.

The keypad, code and relative outputs must be programmed in accordance with the following procedure:

Via Keypad

1. Access the section of the Installer menu for the programming of the "NNN" keypad you wish to associate with the outputs:

Type-in Code (Installer) (OK), PROGRAMMING Keypads (OK),

Select peripheral ok, Keypad "NNN" ok

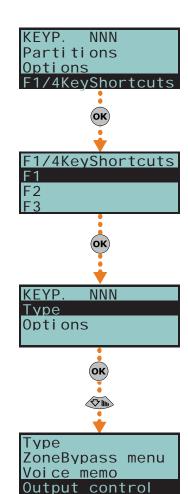
- 2. Access the "F1/4KeyShortcuts" section and select a function key
- 3. Access the "Type" section and associate the selected function key with the "Output control" shortcut.
- 4. DO NOT ENABLE the "Requires code" option for the shortcut associated with the function key undergoing programming.
- 5. Go back to the installer menu and access the "Codes" section.
- 6. Select the user code shown in the table in accordance with the control panel model undergoing programming:

Table 7-22: User code number

Keypad number	SmartLiving Model		
Keypau IIuilibei	505, 515	1050	10100
001	026	041	086
002	027	042	087
003	028	043	088
004	029	044	089
005	030	045	090
006	/	046	091
007	/	047	092
008	/	048	093
009	/	049	094
010	/	050	095
011		/	096
012		/	097
013	/		098
014	/		099
015	/		100

- 7. Access programming of the selected code, at the "Assigned outputs" section.
- 8. Use keys $\blacksquare *$ and $\blacksquare *$ to select the outputs from those available on the list.

7-28





Programming the Nexus

7-29

The Nexus programming phase allows you to select which actions the control panel will implement on receiving a voice call/SMS message (from an authorized user) over the GSM network. Each command comprises a group of fully-programmable parameters.

Each time a user requests an operation - via a correctly formatted SMS message or voice call to the SIM card of the Nexus - the control panel will activate the respective shortcut/ event and send confirmation (feedback) of the successfully implemented command.

The following parameters can be programmed solely via the SmartLeague software programme. Select the "Nexus" option from the SmartLiving system tree structure (on the left) and then go to the "Programming" section on the right to program the relative parameters.

INIM does not guarantee the total availability of all the GSM/GPRS functions described in this manual, due to the various combinations of GSM/GPRS service providers, SIM types and telephone models that may be in use.

Note

SMS Commands

7-29-1

The "Programming - SMS Commands" section allows you to programme up to 30 SMS-activated commands.

For the description of the programming parameters of each command, refer to the SmartLeague Installation and Configuration Manual.

Users who wish to activate a command via SMS text must enter the command details as follows:

COMMAND USING SMS TEXT

<xxxxxx> <SMS Text>

where:

- <xxxxxx> stands for the PIN of a control panel user
- a blank space must be keyed in after PIN entry
- <SMS Text> which is the command identifier, as previously described

You wish the control panel to activate "Scenario 3", switch On the perimeter lights and confirm the operation via SMS text. For an operation of this type, proceed as follows:

EXAMPLE

- 1. "SMS Text" choose the desired description, for example "Night mode"
- 2. "Shortcut" select the "Arm/Disarm" shortcut
- 3. "Shortcut option": "Scenario 3"
- 4. "Shortcut 2" select the "Activate outputs" shortcut
- 5. "Shortcut option 2" the output associated with the perimeter lights
- 6. "Confirm" SMS

When a user keys in the following SMS text on a mobile (cellular) phone:

123456 Night mode

where "123456" stands for the User's PIN and this message is sent to the number of the SIM card of the Nexus, the control panel will carry out the requested operations and will send an SMS message of confirmation to the mobile phone of the caller who dispatched the command.

Night mode: command done!

The installer by modify the five predefined default commands:

- **DEFAULT COMMANDS**
- "CREDIT" for balance enquiries relating to the SIM card of the Nexus, the user will
 receive an SMS text indicating the remaining credit.
- "STATUS" for status enquiries relating to the Nexus, the user will receive an SMS text indicating the:
 - •• device name and firmware revision
 - GSM network provider
 - • GSM signal reception level
 - device tamper status
 - BUS status
 - Balance (remaining credit)
 - •• scenario active (if present)
- "EXC" (or "ESC"), to inhibit the control panel zones
- "INC", to activate the control panel zones

For the last two commands, the message text must be:

<xxxxxx> EXC <zone description>



where:

- <xxxxxx> is the PIN of a control-panel user coded, followed by a blank space
- "EXC" (or "ESC" or "INC") is the command to be implemented on the zone, followed by a space
- <zone description> is the name zone to be inhibited or activated

Caller ID commands 7-29-2

The "Programming - Caller ID commands" section will allow you to programme up to 200 telephone numbers and the commands which will be implemented when each telephone number is recognized by the control panel. If a voice call is received from a telephone number, the command you select from those programmed in the "SMS Commands" section will be carried out.

For the description of the programming parameters of each command, refer to the SmartLeague Installation and Configuration Manual.

Text for SMS messages 7-29-3

The "Parameters settings - Customizable SMS Messages" section will allow you to create up to 50 SMS text messages of 80 alphanumeric characters each. These messages can be associated with the events by means of the "SMS message number/index" option described in *paragraph 7-11 Events*.

General parameters 7-29-4

The "Programming - General parameters" section will allow you to programme some of the Nexus management functions, such as: low/remaining credit, input and output volume, disablement of tamper protection and the emergency signalling delay.

For the description of the general parameters, refer to the SmartLeague Installation and Configuration Manual.

The remaining credit control feature is subject to temporary or even permanent unavailability caused by changes in the implementation of the methods used by the GSM/GPRS service

INIM provides device programming functions which may be capable of restoring this feature, by means of manual changes to the respective parameter settings.

GPRS Connections 7-29-5 (Nexus/G only)

The Nexus/G allows you to use the GPRS connection for remote upload/download operations to/from control panels using the SmartLeague software application.

The "Programming - GPRS Parameters" section allows you to configure the GPRS communication settings of the Nexus/G device.

For the description of the general parameters, refer to the SmartLeague Installation and Configuration Manual.

Once the parameter settings are complete, you can activate the GPRS connection by means of the following procedure:

- 1. Start the SmartLeague software application and access "Settings Application data" menu section.
 - Select "Connection via GPRS" from the "Communication Type" section, then press "Start".
- 2. The "Start" button opens the GPRS connection status window, where you must the set port. The setting must coincide with the "Port" parameter, described above.
- 3. Press the "Connect" button to activate the server.
- 4. The connection cannot be established until the teleservice request is received. The teleservice request can be made in different ways, as follows.

Select the "Nexus teleserv." option from the User menu, then press the button to start the teleservice session.

The Nexus/G will initialize the connection to the address and port programmed in the "Nexus - Programming - GPRS settings" section of the SmartLeague application. The keypad will show the connection status for about 90 seconds and the following messages may appear:

TELESERVICE REQUEST FROM KEYPAD

CONNECTION

Note



- **GPRS connected** this indicates a successful connection; 10 second after the visualization of this message, the keypad will return to standby status and the icon on the second line of the display will blink.
- Connection Error this indicates a failed connection.
- **Error code:** xxx this indicates that code error is the reason for the failed connection.

Table 7-23: Nexus/G - Connection errors

Code	Error	
001		
002		
003	GPRS connection error	
004		
005	GPRS service not provided by the SIM provider	
006	Possible APN error	
007	Possible APN error or GPRS not enabled	
800	GPRS connection error	
015	TCP connection error (wrong URL, wrong port, Nexus server on SmartLeague disconnected or unreachable, etc.)	
016	TCP disconnection error	
024	GPRS connection error	

Code	Error		
025	GPRS disconnection error		
027	GPRS connection error		
028	Command error - connection not supported (the Nexus model in use is not GPRS capable)		
029	GPRS multi-connection error		
030	Unexpected remote disconnection (sudden shutdown of the Smartleague server)		
101			
102	Error during TCP connection		
103			
105	Problems with normal control panel operating capacity		
106	Generic internal error		
107	GPRS disconnection error		

TELESERVICE REQUEST VIA SMS

where:

- <xxxxxx> is the installer code PIN, followed by a blank space
- "CONNECT" is the connection command, followed by a space
- <Connection Name> is the description of the connection (previously described), followed by a space
- <URL>: is the IP address of the server you wish to connect to, followed by ":"
- <Port> is the connection port

If you intend using the settings configured in the "Programming - GPRS settings" section (previously described), the last two parameters can be omitted.

After the SMS message has been sent, you must wait until the software indicates that the connection has initialized.

- 5. Once initialized, you can carry out the desired Upload/Download operations via the SmartLeague software.
- 6. When the programming session is complete, access "Settings Application data GPRS Connection", then select "Disconnect" to end the connection.

 If no read/write operations are carried out for 3 consecutive minutes, the GPRS

connection will end automatically.

Configuration of graphic maps

7-30

The SmartLiving supervision functions are based on graphic maps which can accessed by the end-user through an Alien keypad or web interface.

The maps can be accessed through the SmartLeague software program, as follows:

- Alien graphic maps select the keypad from the system tree structure on the left, then select go to the "Programming - Alien Maps" on the right.
- Alien graphic maps select the keypad from the system tree structure on the left, then select go to the "Programming Alien Maps" on the right.

A box, located in the centre of both sections, shows the images of the current maps. Above this is a button bar that allows you to open new maps or edit existing ones.

The $oldsymbol{\triangleright}$ button on the button bar allows you to view either the tree of graphic maps with objects already inserted, on the left, or the list of objects to insert.

The objects can be added by simply dragging the selected icons and dropping them on the image.

The button bar also provides buttons for the alignment and resizing of the icons placed on the map.

By right-clicking on each of the inserted icons, you can edit the icon settings or delete it from the map.



Chapter 8

COMPLIANCE WITH RULES IN FORCE

In order to guarantee compliance with the regulations in force, you must adhere to the following guidelines:

- nBy/X readers must be equipped with devices that protect them against forcedopening of their casings (EN50131 grade 2) and dislodgement from their placements (CEI 79-2 level II and EN50131 grade 3), in compliance with Level 3, as indicated in paragraph 3-2-9 Installing nBy/X readers.
- The dislodgement protection of the control panel mod. Tamper NO must be mounted (CEI 79-2 level II and EN50131 grade 3).
- JOY, Aria/HG, nCode and Concept keypads must be equipped with enabled tamper-protection devices, as indicated in *paragraph 3-3-2 Addressing the keypads*.
- FLEX5/U and IB100-RU devices must be mounted inside the enclosure of SmartLiving 1050L, 10100L, 1050L/G3 and 10100L/G3 control panels, or must be equipped with a device that protects them against forced-opening of their casings (EN50131 grade 2) and dislodgement from their placements (CEI 79-2 level II and EN50131 grade 3).
- IB100-RP and IB100-A devices cannot be used in configurations with security grade 3, unless equipped with a device that protects against dislodgement.
- The lines relating to the intrusion-detection zones must be configured as 'Double balancing' with double EOL resistors, or as Single balancing with single EOL resistor. They must also be equipped with devices which protect them against the forcedopening of their casings.
- Terminal tamper, peripheral tamper and control-panel tamper events must trigger audible signals (sounder signals) for a period of not less than 3 minutes.
- The output activated by the previously mentioned tamper events must be different from the output activated by alarms signals.
- · All Code PINs must have 6 digits.
- If a Timer is used for automatic-arming operations, the Pre-arm times must be programmed separately for each partition (the Pre-arm time must not be set at 0).

Specifically, to guarantee CEI 79-2 compliance of devices, the following options must be programmed as follows.

CEI 79-2 LEVEL II

- The following options must not be activated in the "Panel Options" section:
 ReaderBuzzer OFF
 - BypassAlsoTamper
 - OpenZonesArmLock
 - •• 50131ReaderLedOFF
 - 50131StatHidden
 - 50131IconsHidden
 - 50131AlarDelayed
 - •• 50131WarnLedMem
- Do not enable any of the "FaultsNotReady" options from the "Other parameters" section.
- The "Requires code" option from the "Keypads Choose peripheral Options" section must be enabled for every keypad and shortcut in use.
- The "Entry Time" parameter of each partition must be no more than 60 seconds.

Compliancy with EN50131 Grade 2 is guaranteed by observing the following guidelines.

EN50131, GRADE 2

- In the "Panel options" section, enable:Keypad lockout
 - OpenZonesArmLock
 - NoUserTamp.reset
 - 50131ReaderLedOFF
 - 50131StatHidden
 - 50131IconsHidden



- 50131AlarDelayed
- 50131WarnLedMem
- The following options must not be activated in the "Panel Options" section:
 - ReaderBuzzer OFF
 - BypassAlsoTamper
- In the section "Other parameters FaultForNotReady", enable the following options:
 - Zone fuse fault
 - IBUS fuse fault
 - Low battery
 - Mains failure
 - •• Tel. line down
 - Jamming
 - Low battery WLS
 - WLS zone loss
 - LossTamp.ongoing
- Zones configured as "24H", "Automation" are non-compliant.
- Zones programmed as "Arm", "Disarm", "Switch" or "Follow" comply only when activated by keyswitches with more than 10,000 code combinations.
- An input is set up for system fault management.
- You must delete any programming relating to outdoor sounderflashers from the respective alarm event in the "Outputs" section for all zones with the "Fault Zone" attribute. You can programme indoor sounderflashers via the "Other outputs" option.
- The telephone dialer must be enabled.
- The system must include a self-powered outdoor sounderflasher for intrusion-alarm event signalling.
- If you use a digital dialer or voice dialer with SmartLogos30M board for transmissions, a telephone number must be reserved for the following events:
 - •• All events generated by zones with the "Hold-up" attribute.
 - •• All events generated by "Instant", "Delayed", "Delayed unhidden" and "Route"
 - •• All events generated by terminal, peripheral and control panel tamper.
 - All faults detected by the control panel.
- The "Alarm Cycles" parameter of each zone must be set between 3 and 10.
- The "Mains fail.Delay" parameter must be set at no more than 1 minute.
- The "Requires code" option on the function-key shortcuts must be enabled for all the assigned shortcuts.
- The "StopTelOn Disarm" partition option must not be enabled.
- The "Entry Time" of each partition must be set at a maximum of 45 seconds.
- You must enable the "Priority" option for any alarm events associated with "Hold-up"
- "Failed to arm" and "Forced arming" events must be saved to the Events log.
- The programmed "LowBattery delay" must not be programmed at more than 5

Compliance with EN50131-3 grade 3 is guaranteed by adding to the above-mentioned requirements the following:

EN50131-3, GRADE 3

- In the "Parameters" section, enable option "50131 Grade 3".
- If the installation uses detectors with an anti-mask function, each anti-mask signal must be managed as follows:
 - Prepare an input terminal for the anti-mask signal connection.
 - Programme the following parameters:
 - "Description": assign an explanatory description to the signal
 - "Fault zone": enable this option
 - "NoArmIfNotReady": enable this option
- Use an ATS4 notification appliance:
 - •• protocol: SIA-IP with encryption
 - •• interface: SmartLAN/G or SmartLAN/SI

Compliance with EN50131-6 grade 3 is guaranteed for SmartLiving control panel models 1050/G3, 1050L/G3 and 10100L/G3 without additional requirements.

Compliance with EN50131-6 grade 3 is guaranteed for SmartLiving control panel models 505/G3, 515, 1050, 1050L and 10100L without additional requirements.

- Remove the power supply/transformer module (Table 2-6: Control panels description of parts, D).
- Install an EN50131-6 Grade 3 certified power supply unit alongside the control panel enclosure. This power supply will output the power for the control panel and the following signals:

EN50131-6, GRADE 3



- •• G1 power system fault (overvoltage, overcurrent, short circuit)
- G2 mains power failure fault
- •• G3 battery fault
- Connect the backup battery to the battery-charge-level control system of the certified power supply unit.
- Power the control panel by means of a continuous current output of the certified power supply, by wiring it through cable J of the connector on the control panel (*Table 2-8: Mother board description of parts, B*) in respect of polarity (BLACK = negative, RED = positive) and, if necessary, by extending the cable.
- Draw the POSITIVE power supply for all the system parts (control panel, peripherals, detectors, etc.) exclusively from the certified power supply unit.
- Prepare 3 input terminals for the fault signal connections (G1, G2, G3, described above) and program the following parameters for each of the 3 terminals:
 - •• "Description": assign an explanatory description to the signal
 - •• "Fault zone": enable this option



Chapter 9

ERRORS AND FAULTS

Faults detected by the control panel

9-1

FAULT	Message on the User menu, "View/Faults"	Probable cause	Note
Zone fuse blown	Zone fuse fault	Excessive current draw on the "+AUX" terminals of the control panel	
BUS fuse blown	IBUS fuse fault	Excessive current draw on the "+" terminal of the control panel	
Backup battery ineffi- cient or not connected	Low battery	The backup battery of the control panel is almost empty or disconnected.	
Primary power-source loss	Mains failure	The primary power source voltage (230V~) has failed or has been disconnected	
The PSTN landline is unavailable	Tel. line down	Trouble on the PSTN landline	
Interference	Jammi ng	Wireless transmission is poor	
Wireless detector bat- tery low	Low battery WLS	The battery of at least one wireless detector is running out	To view "Low battery WLS" and "WLS zone loss" signalling, access the user menu, go to
Wireless detector not operative	WLS zone Loss	At least one wireless detector is not operating	"View/Faults", press ok to view the list of devices involved.
	Nexus fault / Low signal	The GSM network signal is insufficient	
	Nexus fault / GSM module fault	The GSM module of the Nexus dialer is not operating properly. Call your Installer company	
Nexus GSM dialler	Nexus fault / SIM commun.fault	The SIM card does not respond or is not present. The SIM card PIN is not disabled.	Press OK on "Nexus fault" to access the list of current faults.
faults	Nexus fault / Low Credit	The credit left on the SIM card is below the minimum credit threshold.	
	Nexus fault / Pro- vi derUnavailable	The GSM network provider of the SIM in use is unavailable.	
	Nexus fault / GPRS conn. Lost	NEXUS/G detects problems on GPRS network communications	
IP connection loss	IP conn. lost	The verification of the IP connection fails.	
Device loss or tamper in progress	LossTamp. ongoi ng	One of the following events has occurred: Control panel open Dislodged panel Expansion tamper Keypad tamper Reader tamper Sound.flash.Tamp Expansion loss Keypad loss Reader loss Sound.flash.Loss	

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Faults on IVY-BUS sounderflasher	Sounder faults / Horn fault	A defect/damage has been detected on the horn/sounder.	
	Sounderflasher faults / Low- Batt.Soundfl.	A low-voltage value has been detected on the sounderflasher battery. If the voltage drops below 10V, the device will inhibit the sounder and activate only the flasher (in the event of an alarm). If the voltage drops below 8V, the device will inhibit both the sounder and the flasher.	Press OK on "Sounder faults" to access the list of devices which have at least one fault present. Press OK on the selected sounderflasher to access the list of current faults on the device concerned.
	Sounderflasher Faults / Battery resist.	An excessive internal resistance has been detected on the sounderflasher battery. This type of deep fault indicates corrosion inside the battery, therefore, the battery must be replaced.	
Violation of zones with faults	Faults on zones	Violation has occurred on one or more zones with the "Fault zone" option enabled.	
Contaminated smoke sensor	Detector dusty	The smoke chamber of at least one of the Air2-FD100 smoke detectors is contaminated by dirt or dust. Refer to the instructions supplied with the detector for information regarding the respective threshold.	Press OK to access the list of zones involved.

Communication BUS (I-BUS)

The control panel monitors the I-BUS continuously.

If no signals (control panel and peripheral signals) are detected on the I-BUS for over 40 seconds, the keypad displays will show the warning opposite. The display will show:

- 1. Keypad model
- 2. Keypad firmware version
- 3. Error type
- 4. Keypad address and built-in reader address

First check that cable "D" of the I-BUS is connected properly. Then check the proper operating capacity of the I-BUS and the general integrity of the entire system.

If the message opposite appears on the keypad display, it means that I-BUS is operating properly but cannot communicate with the keypad in question.

Therefore, the keypad is not present in the system configuration.

One of the two messages shown in the figures may also appear during the control panel firmware updates.

If you are using an Alien user interface, the above-mentioned information will be shown on the bottom bar on the home page.

Note

LED activity 9-3

The blue and yellow LEDs on the control panel motherboard (refer to *Table 2-8: Mother board - description of parts, N*) may help in providing information regarding the proper operating capacity of the control panel firmware and I-BUS, as follows.

Blue LED

If the control panel is operating properly, the blue LED on the motherboard will blink rapidly. At the end of a programming session via PC, during restoral of factory default settings and during re-programming operations on the control panel and peripheral firmware, the LED may be either On solid or Off or the entire time. However, once the operation is complete it will start to blink again as previously described.

If the LED is On or Off permanently for no apparent reason (see above), it means that all the system functions are blocked.

Shut the system down and contact your dealer immediately.

Yellow LED

If the control panel is operating properly, the yellow LED on the motherboard should flicker. At the end of a programming session via PC, during restoral of factory default settings and during re-programming operations on the control panel and peripheral firmware, the LED may be either On solid or Off or the entire time. However, once the operation is complete it will start to blink again as previously described.

If the yellow LED is On or Off permanently, it means that there is trouble on the I-BUS.

- JOY/MAX -FW RELEASE X.YZ

JOY/MAX

FW RELEASE X. YZ

NOT ENROLLED

P14

NO COMMUNICATION

9-2

0.2

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If the LED is On or Off permanently for no apparent reason (see above), it means that the I-BUS is blocked. This condition is confirmed by the loss of communication with the keypads, readers and expansions.

Check the integrity of the I-BUS line.

Ring Sensitivity 9-4

The various configurations of modern telephone lines and the multiplicity of signals that transit along them, require major attention in the design of phone-line interfaces. The optimized phone-line interface on-board SmartLiving control panels has been especially designed to satisfy present day requirements. In addition to the traditional telephone plug for land line (PSTN) connections, there are usually boards for ISDN or ADSL connections.

If there are ADSL filters on the line, it will be necessary to connect the control panel downstream of the filters, to the line dedicated to telephone equipment (this line is clearly indicated on the filters).

Following are two "trouble" conditions which may be caused by ISDN or ADSL connections, etc., and the "actions" you must take if you encounter such problems.

- The control panel is enabled for "Answerphone" and "Teleservice" functions but fails to pick up incoming calls after the programmed number of rings or picks up after more rings than programmed. If this occurs, increase the value of the "Ring sensitivity" parameter to a suitable level.
- The control panel is enabled for "Answerphone" and "Teleservice" functions but picks up during "through" calls (calls that should not involve the control panel). If this occurs, decrease the value of the "Ring sensitivity" parameter to a suitable level.

Calibrating the touch-screen 9-5

If the touch screen of the Alien keypad does not respond to taps, you must carry out the forced calibration process.

You can start this process by pressing and holding for 7 seconds the (*Table 2-23: Alien - description of parts, W*) button which, for the Alien/G, can be reached on the PCB after opening its casing and, for the Alien/S, can be reached through the relative hole. Once the calibration process starts, simply follow the instructions provided by the keypad.

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Appendix A

TECHNICAL TERMINOLOGY AND GLOSSARY

Violation of a zone with this attribute will generate an instant alarm even when the partitions it belongs to are disabled. The system will generate the respective alarms which will be shown on

These zones usually monitor conditions that are not directly connected to intrusion control. For example, Water tank overflow and flooding detectors are usually configured as 24H zones. If you are installing a fire detector, please remember that the inputs of SmartLiving control panels are not compliant with EN 50131-1 and EN 50131-3.

Detection of non-authorized entry into the protected building. More specifically, activation status

A parameter generally associated with zones. This value determines the number of alarm events a zone can generate before the partitions it belongs to disarm. This value (number of alarm events) resets to zero when the zone partitions re-arm or reset.

If a zone is allowed to generate an unlimited number of alarm events, it is classified as a "repetitive" zone.

In the event of:

- Zone Alarm
- terminal tamper
- open panel or dislodged panel
- peripheral tamper (keypads, expansions, readers) peripheral loss (keypads, expansions, readers) false key

The red LEDs on the system keypads and readers go On each time one of the previously-mentioned events occur. This visual warning signal is held even after the event ends (alarm memory), in order to warn you that an event occurred during your absence. This visual warning signal will be held until you clear the event memory (refer to Delete Memory).

This is a private service that monitors premises protected by intrusion control systems equipped with digital communicators or voice dialers.

Alarm Receiving Centres receive alarm reports from monitored systems and take all the necessary actions to protect the occupants of the protected premises.

The "Answerphone" function, if enabled by the user, allows the control panel to answer incoming calls after a pre-set number of rings. The control panel will pick-up and play the recorded answer message.

During the call, the recipient can type-in a valid PIN (enabled for over-the-phone control) and access the authorized functions.

User operations on one or more partitions. These generally indicate also the status of the partitions. Under normal circumstances, the zones of armed partitions can generate alarms. Under normal circumstances, the zones of disarmed partitions cannot generate alarms. The system generates tamper alarms even when partitions are disarmed.

You can enable/disable the Auto-arm function on each separate partition.

If the auto-arm option is enabled on a timer-controlled partition, the partition will arm/disarm in accordance with the ON/OFF settings of the timer.

A zone with this attribute will be bypassed automatically by the control panel, if the partition it belongs to arms when the zone is not in standby status.

The zone will be unbypassed automatically when it restores to standby or when the partition it belongs to is disarms.

These zones operate in the same way as 24h zones, but do not generate partition alarms or visual signals on the system reader and keypad LEDs.

Zones configured in this way can be used for automation applications.

This is the secondary power source of the system. If primary (230 Vac) power failure occurs, the battery will take over.

SmartLiving control panels use sealed lead batteries. The battery housing determines the maximum size of the battery and therefore, its power-storage capacity. SmartLiving control panels can be equipped with lead batteries @12V 7, 9 or 17Ah. The control panel monitors the battery continuously and keeps it is under constant charge (from Mains). **24 HOUR ZONE**

ALARM

ALARM CYCLES

ALARM OR TAMPER MEMORY

ALARM RECEIVING CENTRE (ARC)

ANSWERPHONE

ARM/DISARM

AUTO-ARM

AUTO-BYPASSABLE ZONES

AUTOMATION ZONE

BACKUP BATTERY



Connection of a zone to a terminal configured as an input.

It is necessary to program the balancing of each separate zone and wire the terminal accordingly. The SmartLiving intrusion control panel provides 6 different types of balancing, as follows:

- Normally Open Normally Closed
- EOL
- DEOL
- Double zones (only terminals with DOUBLING configuration)
 Double zones with EOL (only for terminals with DOUBLING configuration)

DEOL and customized zones can discriminate 4 conditions:

- Short-circuit
- standby
- alarm
- tamper

If you observe the Events list, you will see that there is an alarm event for each zone and a tamper event for each terminal. This is because a terminal configured as a double zone (or double zone with EOL) must be able to discriminate between alarm and standby conditions on each single zone, whereas tamper and short-circuit conditions involve the entire terminal and not the single zone.

An output, that once activated, requires an explicit command to deactivate it.

Generally, bistable outputs are used to provide real-time event signalling. For example, if the "Mains Failure" event is associated with a bistable output that is connected to a LED, the LED will signal the event immediately.

A bypassed (disabled) zone cannot generate alarms. Each zone can be bypassed/unbypassed manually by the system users, or automatically by the control panel. Automatic bypass operations can take place only when the zone is configured as "Auto-bypassable" and the conditions that regulate auto-bypass operations are in effect (refer to Zone Attributes – Auto-bypassable).

Zone deactivation is useful when detectors are not working properly and you wish to avoid false alarms. Under normal circumstances, bypassed (disabled) zones can still generate tamper events. If you do not wish this to occur you must set the "Bypass Tamper" option on the control panel.

A list of outgoing event-associated calls the control panel must send to programmed contact numbers.

Enabled users can clear the call queue manually.

A zone with this attribute will generate "Chime on partition" events, if violated when the partitions it belongs to are disarmed.

Keypads which have partitions in common with the chime zone will emit an audible signal when the "Chime on partition" event occurs. If all the partitions the zone belongs to are armed, the zone will operate as programmed. This function is widely used in commercial buildings (shops, etc.), and is generally associated with the zone that monitors the entrance to the premises in order to signal the arrival of customers.

The Cloud is a web service that provides data storage space ("cloud storage") that, by means of any Internet connection, is accessible at any time and from any place. The data are then shared over the network, along with the resources to process them ("cloud computing") with all users who have a valid access.

The Cloud provider guarantees therefore that the user has both the resources for the processing and editing of data, and data synchronization that can be accessed and modified by multiple users without the risk of being lost.

These are 4, 5 or 6 digit PINs which allow the building occupants (users) to access the system. Each code can be programmed to control specific functions only, and to operate the system to suit the requirements of the Main user.

Code types

Installer code: used by the installer company technician User code: assigned to the building occupants

Activation of a zone with this configuration generates the command it is assigned to.

SmartLiving control panels manage the following commands:

Disarm zone: if activated, it will disarm all the partitions it belongs to. Zones configured in this way can be used to disarm partitions by means of a keyswitch. **Arm zone**: if activated, it will arm all the partitions it belongs to. For example, keyswitches are usually configured as command zones.

OnArm/OffDisarm zone: if activated, it will generate an arm-partitions command and, the instant it restores to standby, a disarm-partitions command. The command will affect only the partitions the zone belongs to. Zones configured in this way can be used to arm/disarm partitions by means of a keyswitch.

Switch zone: if activated when all the partitions it belongs to are disarmed, it will arm all the partitions. If activated when even one of the partitions it belongs to is armed, it will disarm all of its partitions. The command will affect only the partitions the zone belongs to. Zones configured in this way can be used to arm/disarm partitions by means of a keyswitch. **Patrol zone**: if activated, it will have a patrol function in all the partitions it belongs to.

Telephone communication protocol (reporting format) for Alarm Receiving Centres using DTMF tones. Messages transmitted in this protocol contain information regarding the reported events,

- user code ("account code"), the numeric identifier code of the caller class code, single digit numeric code that identifies the type of event
- event code, hexadecimal code comprising two characters that identify the event. "CCC", a 3 digit numeric code that identifies the device that generated the event

This information is assigned automatically by the control panel or, alternatively, each one can be programmed by the installer.

BALANCING

BISTABLE OUTPUT

BYPASS - ZONE DEACTIVATION

CALL QUEUE

CHIME ZONE

CLOUD

CODE

COMMAND ZONE

CONTACT-ID



A group of operating parameters set at the factory by the manufacturer. The purpose of these settings is to reduce the work of the installer during the installation phase.

The installer can restore the system to "Default Settings" if necessary.

Violation of a zone with this configuration will not generate an alarm but will trigger the associated Timer (Entry time). If the user does not disarm the partition/s within the set "Entry time", the system will generate an alarm.

For example, the zone that monitors the main door of a building is usually configured as a Delayed Entry Zone, in order to give building occupants time to enter the building and disarm the partition without generating an alarm.

Violation of a zone with this configuration will not generate an alarm but will trigger the associated Timer (refer to Exit time).

For example, the zone that monitors the main door of a residence or building is usually configured as a delayed exit zone, in order to give occupants time to leave the partition after an arming operation. If the user does not leave the zone within the set "Exit time", the system will generate

This is an explicit user-command which ends signalling on the red and yellow LEDs on keypad and readers for the following events:

Zone Alarm

terminal tamper

open panel or dislodged panel

peripheral tamper (keypads, expansions, readers)

peripheral loss (keypads, expansions, readers) false key ongoing fault

memory fault

If a user deletes the alarm/tamper memory, the visual signals on the reader/keypad LEDs will clear.

If the settings for norm. 50131 compliancy are active, the keypads may, in addition, require entry of a level 3 access code code (installer code) for the deletion of fault memories.

This device allows the control panel to send report calls to Alarm Receiving centres (ARC). SmartLiving control panels provide a built-in digital dialler which supports all the most widely used protocols.

An electrical input point used for the management/supervision of signals coming from 2 intrusion detection devices.

The terminal the zone is connected to must be configured as a "double input zone". Terminals with this configuration allow the system to distinguish between two distinct alarms coming from the two different zones it is connected to.

The time (expressed in minutes or seconds) that the system allows the user to disarm the partition after zone violation. It the system is not disarmed within the set time it will generate an alarm.

Each partition can be programmed with its own Entry time.

An operative status recognized by the system.

For example: detector alarm, mains failure (230V~), blown fuse, user-code recognition, etc., are all events recognized by the control panel.

Each event is associated with an activation event (when the event occurs) and a restoral event (when the event ends).

Each event can be programmed to generate the following actions:

activation of one or more outputs

activation of an output scenario transmission of one or more e-mails send one or more SMS messages

activation of one or more voice calls

activation of one or more digital calls

activation of shortcut functions

This is the non-volatile portion of the memory the panels saves events to. The events are saved in chronological order with the following details:

event description - with details regarding new events and restorals information regarding the user or the cause of event

event location

event date and time

The events log can be viewed by the system users and the installer.

Partition events (zone alarms, partition alarms, arm/disarm operations, recognized codes and keys, etc.) can be viewed by users with at least one partition in common with the event element.

For example, if a user arms several partitions from a keypad, the events log will show:

description of the event - "Arm request"

description of the code and partitions involved

description (label) of the keypad involved date and time of the request

A short period (expressed in minutes or seconds) during which the user must disarm the partition after violation (for example, after opening the front door) otherwise the system will generate an alarm.

Each partition can be programmed with its own Exit time.

These boards can be used to increase the number of terminals (zones or outputs) and/or the size of the system (in order to extend it over a larger area). Expansion boards can be connected to the system via the I-BUS.

DEFAULT SETTINGS

DELAYED ENTRY ZONE

DELAYED EXIT ZONE

DELETE ALARM/ TAMPER/FAULT **MEMORY**

DIGITAL DIALER

DOUBLE ZONE

ENTRY TIME (OR ENTRY DELAY)

EVENT

EVENTS LOG (OR EVENTS MEMORY)

EXIT TIME (OR EXIT DELAY)

EXPANSION BOARDS



A condition which indicates that a system component is not working properly.

Some faults can jeopardize the performance of the entire system. Mains failure (230V~), telephone line-down and low battery are typical faults.

FAULT

This type of zone usually comprises a motion detector which senses for the presence of movement in the protected partition. For example, PIRs, Double technology detectors, magnetic contacts on doors and windows.

GENERIC ZONE

A map is an graphic representation of part of the area supervised by the security system and identified by an image file. The entire system can be represented by maps which can be linked together.

GRAPHIC MAP

Each map can contain objects represented by icons. These icons are capable of changing status in accordance with the objects they represent and can operate as activation buttons for specific

functions. The user, by means of access to a graphic map, can view the supervised area and also access the security system functions.

An object can be:

- Partition
- Zone
- Output
- Map link
- Button

A device which allows the control panel to make telephone calls over the GSM network and also allows users to interact with the control panel over-the-phone or by means of SMS text messages. **GSM DIALER**

Activation of a zone with this configuration generates an immediate alarm even when the partition it belongs to is disarmed. The outputs and programmed calls will be activated, but the alarm will not be signaled on the red LEDs on the keypads and readers or on the keypad displays. Under normal circumstances zones with this attribute are activated manually (using hidden buttons or similar devices) in situations of duress (armed robbery, etc.). **HOLD-UP ZONE** (OR PANIC ZONE **OR SILENT ZONE)**

This is the two-way communication line (4 wires only) which connects the peripheral devices (keypads, readers, expansions, etc.) to the control panel. The 4 easily identifiable wires, on the control panel motherboard and on the expansions, are:

I-BUS

- "+" power 12 Volt
 "D" data
 "S" data
 "-" Ground

A terminal configured as a Controlled Output (I/O, input-output) is capable of reading the status of the output.

I/O TERMINAL

This configuration can be used for creating automations, for example the condition of an alarm condition on "AND" zones:

- the single alarm events of two zones activate respectively an output terminal and an I/O terminal both the outputs are monostable, for example at 30 seconds
- the terminals are shorted

The input section of I/O terminals triggers the alarm actions (calls and sounderflashers), only when the two zones are both violated (AND) within the monostable time of the outputs.

The Installer code is generally a 4, 5 or 6 digit PIN which allows the installer to access the system Programming Menu and check of change the system parameters either from a keypad or via the respective software programme, on condition that all the system partitions are disarmed. In accordance with EN 50131 grade 3 security, the installer code is a level 3 access code.

INSTALLER CODE (ACCESS LEVEL 3)

List of system functions and respective parameters accessed via keypad.

This menu allows the installer to program, check and change nearly all of the system parameters. The installer menu can be accessed from any keypad after entry of a valid installer PIN, and on condition that all the system partitions are disarmed, or can be accessed via a computer equipped with the SmartLeague software.

INSTALLER MENU

INSTANT ZONE

INTERIOR ZONE

Violation of a zone with this attribute will generate an immediate alarm (no delay).

A zone that monitors the inside of the protected building.

For example, the interior zones of an office building are the zones that monitor offices and entrance points.

If a partition that a zone belongs to is armed in Stay mode, it will be unable to generate alarms.

A camera is an electronic instrument that records bidirectional images in sequence. It is part of a telesurveillance system supervised by a intruder control panel.

The IP camera (or "webcam") transmits video images to an URL address, for direct viewing or for storage of the recorded material.

IP CAMERA

The SmartLiving control panel manages the following types of IP cameras:

- static cameras
- cameras with Onvif protocol, that allow user interaction thanks to remote control of the lens (ZTL) and pre-programmed audio/video profiles



A portable control device (card or keyfob) which allows the authorized user to access the system. The key must be held in the vicinity of the reader in such a way to allow the system to read it and permit access to authorized operations.

Each key is programmed with:

- A random code selected from over 4 billion possible combinations.

A label (usually the name of the user).
The partitions it controls (arms, disarms, etc.).
A group of pre-set parameters which allow the key user to operate the system in accordance with the authorized access level (for example, a key can be programmed to arm or disarm the system only at certain times of the day).

This device allows users to access and control the system. Keypads can be connected to the system via the I-BUS.

The keypad allows users to access and control the partitions which are common to both the code and keypad in use. The user can arm/disarm partitions, view the status of the zones, stop visual and audible signalling devices, etc.

A generic magnetic-contact is a detector/sensor based on an magnet which, when placed near the sensor, provokes the mechanical closure of an electrical contact.

If you wish to carry out maintenance work on the control without generating false alarms (tamper and intrusion), you must put the control panel in "Maintenance" mode. The control panel in must also be in "Maintenance" mode during the keypad and reader addressing process. The other functions of the control panel are still available (arm/disarm operations, events, calls, etc.).

An output, that once activated, does not require an explicit command to deactivate it. This output must be programmed with a timeout (Monostable time expressed in seconds or minutes). Once activated, this output will remain active until the pre-set Monostable time expires.

Generally, monostable outputs are used to generate continuous signalling of the events they are associated with. For example, if the "Alarm Partition 1" event is associated with a monostable output with a 2 minute timeout, the output (sounder) will signal the event for 2 minutes then will deactivate automatically.

An advanced wireless-technology system in which the control panel and its devices are equipped with a transceiver module. If a detector senses an alarm condition, it will generate a number of event transmissions which under the right circumstances should reach the control panel.

An electrical output point connected to a signaling or control device activated/deactivated by the control panel in response to programmed events.

The terminal the device is connected to must be configured as an "output".

The following types of outputs are used:

- Open-collector output output that manages devices which require small amounts of current and voltage that is different from that of the control panel
- Low power relay switch with dry contacts for devices that require small amounts of low current and

- High power relay switch with dry contacts for devices supplied by the primary power source
 Triac ON/OFF AC electronic switch capable of activating/deactivating a device
 Triac dimmer AC electronic switch which allows adjustment of the power supply to the device
 Analogue output that allows adjustment of the power supplied to a device from 0 to 10V (industrial standard 0 - 10V).

Outputs are usually connected to audible or visual signalling devices but can be used for other purposes such as: switching on lights or opening doors/gates.

This is the configuration of the activation mode of several outputs at the same time.

For each output, it is possible to set up the digital status (On - Off) or the analogue status (1 -100 for dimmer type outputs and analogue expansion outputs).

The SmartLiving control panel provides 50 output scenarios, each with a maximum of 10 outputs.

Signaling that may be associated with a state of emergency perceived by the user and signaled to the intrusion control panel by means of a button or the activation of a shortcut.

This type of signalling generates an event which activates the programmed outputs and calls. This type of signalling does not activate the red LEDs on the keypads and readers nor is it visualized on the keypad displays.

A group of zones.

A partition identifies a group of zones that belong to a spatial or logical portion of the protected premises. For example, a partition may comprise all the zones that protect the downstairs partition of a house (spatial partition), or all the entrances of an office building (logical partition).

This refers to the status of a partition as requested by the user.

The user can carry out the following operations.

- **Disarm** this operation disables the partition completely. In this way, none of the zones belonging to the partition can generate alarms.
- Away mode this operation enables the interior and perimeter zones of the partition. In this way, all of the zones of the partition can generate alarms.
- Stay mode this operation enables only the perimeter zones of the partition. In this way, only the perimeter zones of the partition can generate alarms.

 Instant mode this operation enables the partition perimeter zones only and annuls delays. In this way, violation of the perimeter zones of the partition will generate instant alarms.

 Hold this operation forces the partition to hold its current status.

A periodic inspection of the protected premises carried out by authorized security staff. Patrol staff can disarm each partition for the pre-set time only (programmable separately for each partition). The partitions concerned will rearm-as-before automatically when the pre-set time expires. Persons involved in periodic security inspections require codes with the "Patrol" attribute. If the system receives a partition disarm command (generated by a code or key) while the patrol time is running, the "Patrol" function will be interrupted immediately. In this case, when the patrol time expires the partition will not be re-armed automatically and therefore will be disarmed. **KEY**

KEYPAD

MAGNETIC CONTACT

MAINTENANCE

MONOSTABLE OUTPUT

ONE-WAY WIRELESS SYSTEM

OUTPUT

OUTPUT SCENARIOS

PANIC

PARTITION

PARTITION ARM/ DISARM OPERATIONS

PATROL



A zone that monitors the entrance points of the protected building.

Perimeter zones are usually direct entrance points such as doors and windows. For example, the front door of an apartment and windows that allow access from outside.

Event whose activation occurs in accordance with a set time and date established during the event programming phase, are repeated with the programmed periodicity.

Several periodic events are available for use, of which the first can be activated forcibly by other events.

Devices connected to the control panel via the I-BUS.

SmartLiving control panels manage the following peripherals:

- Keypads (Joy, Aria, nCode, Concept, Alien) Proximity Readers (nBy)

- Expansions (Flex5)
 Transceiver (Air2-BS200)
- Sounderflasher (Ivy-B) Isolators (IB100) GSM dialer (Nexus)

The period (expressed in minutes) before an automatic arming operation.

For example, if a partition is set to arm automatically at 10:30 with a Pre-arm time of 5 minutes, all the partition keypads and readers will initiate an audible countdown at 10:25 in order to warn users of the forthcoming arming operation.

Each partition can be programmed with its own Pre-arm time.

The installation site.

Identifies the building or part protected by the intrusion control system, generally, a house or office.

The primary source of electrical power to the system is normally @ 230V~ 50 Hz (115V60Hz in some American states).

Usually connected to a switching power supply or transformer (depending on the model) that provides the stabilized voltage to the system and the charge source to the batteries.

Pulse events are events which are a combination of other control panel events based on logical operations, counters and timers.

For example, when it is necessary for more that one PIR detector to signal violation within a preset time in order to generate an alarm.

Spot events are events which restore automatically immediately after their activation. Some of the previously mentioned events are spot events.

For example, the "valid code" event activates as soon as the code is entered at the keypad, therefore, it is impossible to determine its restoral as it starts and ends instantly.

Pulse events (Spot events) can be programmed to activate:

an output and calls when the event occurs an output when the event restores (only if the output has the option "ON afterRestoral" activated) Under normal circumstances, spot events are assigned to monostable outputs (Refer to Monostable Outputs).

This device allows users to access and control the system. The system readers are connected to the control panel via the I-BUS.

By means of the readers, each user can arm/disarm the partitions which are common to both the key and reader in use and can activate shortcuts (refer to Shortcuts) . The key (TAG) must be held in the vicinity of the reader in such a way to allow the system to read it and permit access to authorized operations. Although readers provide a more limited access to the system, they are easiest way of carrying out day-to-day operations (arm, disarm, etc.).

This type of zone comprises a sensor that detects any movement of the protected rollerblind.

Violation of a zone with this configuration will not generate an alarm during the pre-set Entry time (refer to Entry time).

For example, the zones that monitor the way to a command device (Keypad/Reader) are usually configured as Path Zones, in order to give building occupants time to enter the building, reach the command device (Keypad/Reader) and disarm the partition without generating an alarm.

Violation of a zone with this configuration will generate an instant alarm if the Entry time (Entry delay) has been revoked (as per Stay Mode).

4 wire two-way high-speed digital communication line with 4 pole twisted shielded cable.

The 4 wires, clearly identified on the terminals are:

"+" power 12 Volt

"**B**" data

`A" data

"-" Ground

A pre-set arming configuration which applies various operating modes to the system partitions. Following is an example of a pre-set scenario:

- Partition 1Disarm
- Partition 2Away arm Partition 3Stay arm Partition 4Hold Partition 5Disarm

SmartLiving control panels can be programmed (by the installer) with as many as 30 scenarios in accordance with user requirements.

The "Arm/disarm" shortcut must always be associated with one of the 30 available scenarios. When the system applies the selected scenario, the partitions will arm accordingly.

PERIMETER ZONE

PERIODIC EVENT

PERIPHERALS

PRE-ARM TIME

PREMISES

PRIMARY POWER SOURCE

PROGRAMMABLE EVENT

PULSE EVENT

READER

ROLLERBLIND ZONE

ROUTE ZONE

RS485 BUS

SCENARIO



This type of zone usually comprises a shock detector (e.g Glassbreak detector) which senses for shock waves (vibration caused by hard blows).

The shortcuts are control panel functions which, in a single activation, provide a fast way of carrying out specific operations which would normally require a series of activations.

They can be activated by the end-user (at keypads, on codes typed in at keypads or on remote telephones, at readers or on keys) or on the occurrence (activation) of an event.

The shortcuts that can be activated by the user allow direct access to the user menu sections and various operations which normally require several steps inside the user menu.

For example, to activate/deactivate an output manually, you must:

- type in a user code
- access the User Menu
- access the option in the appropriate section (activate outputs)

select the output

activate/deactivate the selected output as required

Instead, the "Activate Output" and "Deactiv. Output" shortcuts allow you to activate/deactivate an output by simply pressing a single key or, if required for security reasons, after entering a user code.

Some shortcuts (for example, "Activate Outputs") require details before the system can implement them. These details (parameter, value, etc.) depend on the source of the shortcut command (keypad, code, reader, keys).

Optical smoke detectors are equipped with sampling chambers (based on light scattering mass -Tyndall effect). They are capable of sensing the presence of smoke particles and thus detecting a fire in its early stages.

These detectors have low power absorption during standby. The current absorption increases during alarm status and thus signals the danger of fire to the control panel.

An output that is monitored and therefore allows verification of its improper operating capacity (unsuccessful activation/deactivation).

The "supervision time" is the interval during which the wireless-system devices (in general wireless detectors in permanent placements) must signal to the control panel that they are operating in the network. If a wireless device fails to signal before the "supervision time" expires, it will be classified as "Lost" and the control panel will trigger a "peripheral-loss" fault event.

Detection of a serious condition that jeopardizes the operating capacity of the device concerned and thus puts the system at risk.

Tamper conditions are detected by tamper switches connected to the system zones, keypads, readers, expansions and control panel. Generally, these events are triggered by system violation such as unauthorized opening of a keypad cover.

These are calls sent to programmed contact numbers when specific events start and end (restoral).

This is a service provided by the installer company with the user's collaboration. The installer connects to the control panel over-the-phone or via a GPRS or Internet connection and, in this way, can check and/or change the control panel programming data.

Screw terminal for the connection of zones (detection devices) or outputs (command/ signalling devices).

The terminals (with some exceptions) of the control panel, keypads and expansion boards can be configured as:

- Input zone
- Double zone (ZONE DOUBLING)
- Output
- Supervised output
- Unused terminal

A zone with this attribute cannot generate alarms (activate audible and visual signalling devices). However, any alarm events which occur will be saved to the events memory.

The installer usually assigns the "test" attribute when the system is undergoing tests, in order to avoid false alarms. In this way, the installer can see if a zone is operating properly by simply referring to the events log.

A logical entity for automatic time-management of programmed peripherals or elements. SmartLiving control panels provide 10 timers.

Each timer can be programmed to manage:

- An activation time (ON Time) and a deactivation time (OFF Time) on preset days of the week and specific dates.
- 5 timer-slot exceptions. Each "exception" refers to a specific interval of one or more days, which can be programmed with an ON and OFF Time.

The timers can be used for different purposes:

- If a timer is associated with a partition, the system will arm and disarm the partition automatically in accordance with the On/Off settings of the timer. If a timer is associated with a code, the latter will be allowed to access the system only when the
- timer is On.
- If a timer is associated with a key, the latter will be allowed to access the system only when the timer is On.
- If the "Timer xxx" event is assigned to an output, the latter will activate/deactivate the connected device in accordance with the On/Off settings of the timer.

No matter how they are employed, the timers must always be enabled by the user.

Transceiver-equipped devices

In two-way wireless systems, all the devices are equipped with transceivers. In one-way wireless systems, the main unit is equipped with a receiver module whereas the peripheral dévices are equipped with transmitters. **SHOCK ZONE**

SHORTCUTS

SMOKE DETECTORS

SUPERVISED OUTPUT

SUPERVISION

TAMPER

TELEPHONE ACTIONS

TELESERVICE

TERMINAL

TEST ZONE

TIMER

TRANSCEIVER



A wireless-technology system in which the control panel and its devices are equipped with a transmitter module and a receiver module.

These systems are more reliable than one-way wireless systems as each device transmission is validated by a reverse transmission.

TWO-WAY WIRELESS SYSTEM

A zone with this attribute cannot be bypassed, manually (by the user) or automatically (by the control panel).

UNBYPASSABLE ZONE

This attribute is usually assigned to high-security zones.

UNUSED TERMINAL

If a terminal is configured as an "unused" terminal, it will not be included in the terminal

configuration. This ensures that any "Unused" terminals on the expansion boards and keypads are still available

Each code is programmed with:

A 4, 5 or 6 digit PIN which allows access the system.

A label which identifies the user (usually the user's name).

The group of partitions it controls (arms, disarms, etc.). A group of pre-set parameters which allow the operator to work on the system in accordance with its authorized access level (for example, a code can be enabled to consult the events log but not to change the date and time).

A hierarchical level, that may allow the user to change to parameters of codes on a lower level in the system hierarchy.

User (the lowest level)

- Manager

- Master

List of functions available to the user after entry of a valid code at the keypad.

USER MENU

USER CODE

This is a delayed entry and exit zone and does not generate alarms when violation occurs during the running entry/exit time, however, the violation will be signaled on the keypad.

VIEWABLE DELAYED ZONE

This device allows the control panel to send voice calls to programmed contact numbers. In SmartLiving control panels the voice dialler function is provided by the SmartLogos30M board (accessory item).

VOICE DIALER

If the system is equipped with a SmartLogos30M voice board, all keypads with voice functions present in the system configuration will allow users to record memos. Messages can be recorded, played and deleted as required.

VOICE MEMO

Software application that allows you to view web contents over the internet.

WEB BROWSER WEB SERVER

Software application that processes web page requests from a web browser. The SmartLAN/G network board has an integrated web server that provides the browser with a web interface for the management and supervision of the SmartLiving system.

WIRELESS

An intrusion control system whose devices (detectors, keypads, keyfobs) communicate with the control panel over radio waves.

Usually, in wireless systems, only the control panel is mains powered (230V~), whereas the system peripherals are battery powered. The battery life is of utmost importance in the design layout and operational capacity of these systems.

ZONE

An electrical input point used for the management/supervision of signals coming from an intrusion detection device. The terminal the zone is connected to must be configured as an "input" zone. Zones are usually connected to a single device, however, it is possible (if the zone is duly wired and configured) to connect more than one device. If a zone is connected to more than one device it is impossible to identify the alarm-trigger device in the event of an alarm.

ZONE ALARM

The conditions which generate a zone alarm, on the understanding that the zone belongs to several partitions, are as follows: the zone must detect violation and all the partitions it belongs to must be armed.

Zone alarms trigger activation of audible and visual signalling devices (sounders, flashers, reader/ keypad LEDs, etc.) and generate voice and digital calls. Zone alarm events automatically generate partition alarm events on all the partitions the zone belongs to.

A violated zone will not generate alarms if:

- it belongs to several partitions and one of them is disarmed
- it is inhibited
- it is in test status (the event will be saved to the events log only)
- it an "interior" zone, and one of the partitions it belongs to is armed in Stay or Instant mode



Appendix B

SHORTCUTS AT DEFAULT

n.	Icon	description	function	parameter
1	&	Arm/Disarm	Applies a pre-set scenario	which sce- nario
2	₩	Stop alarms	Immediately deactivates the outputs relative to zone/partition alarm and tamper events and system tamper events.	
3	M	Clear call queue	Cancels the entire call queue and stops ongoing calls (if any).	
4		Delete memory	Carries out a "Stop alarms" operation and, at the same time, deletes memory of system and partition alarm and tamper events.	
5	- Per	Activate Output	Activates one of the programmed outputs.	Output
6	9	Deactiv. output	Deactivates one of the programmed outputs.	Output
7	te	Overtime	Delays auto-arming time of partitions by 30 minutes.	
8	图X	Teleservice req.	Sends a call to the Installer company number (Teleservice number).	
9	204	Voice menu	Plays a recorded voice mes- sage which announces the shortcuts assigned to the number keys.	User code
10	®	Listen-in	Allows eavesdropping over- the-phone by means of a microphone located on suit- ably placed keypad.	Keypad
11	-	Intercom Call	Accesses the user menu section: Voice functions/ intercom Call	
12		Arm/disarm menu	Accesses the user menu section: Arm/Disarm	
13	B &	Alarm menu	Accesses the user menu section: Manage alarms	
14		Voice func. menu	Accesses the User Menu section: Voice functions	
15		Activations menu	Accesses the user menu section: Activations	
16	∰ ∰	View Nexus sta- tus	Accesses the user menu section: View/Nexus status	
17	84	Arming status	Provides voice information regarding the armed/disarmed status of the partitions.	
18		Keypad sett.menu	Accesses the user menu section: Keypad settings	
19		ZoneBypass menu	Accesses the user menu section: Activations/Zones	19

n.	Icon	description	function
20	€(4	Voice memo	Accesses the user menu section: Voice functions
21		Output control	Accesses the user menu section: Outputs ON/OFF
22		Enab.answer- phone	Accesses the user menu section: Activations/ Answerphone
23	8 *	Enab.teleservice	Accesses the user menu section: Activations/Teleser- vice
24	□ 123	Enable codes	Accesses the user menu section: Activations/Codes
25	引	Enable keys	Accesses the user menu section: Activations/Keys
26	8	Enable timers	Accesses the user menu section: Activations/Timers
27	<u>P</u>	Enab. auto-arm	Accesses the user menu section: Activations/Auto- arming
28		View events log	Accesses the user menu section: View/Events log
29	©	View alarm log	Accesses the user menu section: View/Alarms log
30	Q_{Δ}	View faults log	Accesses the user menu section: View/Faults log
31	<u>P</u> ₽	View arm ops log	Accesses the user menu section: View/Arm/Disarm op.
32	₽	ViewSystemSta- tus	Accesses the user menu section: View/System status
33	90	View zone status	Accesses the user menu section: View/Zone status
34	**3	Change PIN	Accesses the user menu section: Change PIN
35	0	Time/Date	Accesses the user menu section: Time/Date
36		View faults	Accesses the user menu section: View/Faults
37		Thermostat menu	Accesses the user menu section: Thermostat
38	PANIC	Panic	Activates a "Panic" event

Shortcuts at default



Appendix C

AVAILABLE ICONS

The following Table shows the icons provided at default. The icons can be customized to suit the keypad shortcuts. $\frac{1}{2} \int_{\mathbb{R}^{n}} \frac{1}{2} \int_{\mathbb{R}^{$

pau Shortcuts.				
Icon number	Icon			
1	4			
2	≫			
3	77			
4				
5	-j@:			
6	9			
7	te			
8	BX.			
9	204			
10	Ð			
11	==			
12				
13				
14				
15				
16	<u> </u>			
17	84			
18				

Icon number	Icon
19	
20	€(4
21	
22	8
23	8
24	123
25	る品
26	89
27	
28	₽ ■
29	୍ଦ୍ର
30	Q_{Δ}
31	PΒ
32	P
33	Ý
34	**3
35	0

Icon number	Icon
37	₺
38	
39	金
40	fi
41	약입
42	
43	
44	#
45	點
46	100
47	虚
48	
49	∰ _e
50	PANIC

Available Icons 119



Appendix D

VOICE MESSAGES

The SmartLogos30M voice board provides 500 voice message slots, 291 of which are pre-recorded at factory. The messages are arranged in such way as to produce event-related voice calls which clearly describe the related event.

The following Table shows the message numbers and their purpose, together with the respective recording time.

_		- 4	Message dura	tion (seconds)
Туре	Number	Default message	High quality	Average qual- ity
Available user- messages	1 - 100	V	169 (for all 100 mes- sages)	271 (for all 100 mes- sages)
Not available	101 - 165	V	223227	
	166	Scenario 1	2.5	4
	167	Scenario 2	2.5	4
	168	Scenario 3	2.5	4
	169	Scenario 4	2.5	4
	170 171	Scenario 5 Scenario 6	2.5	4
	172	Scenario 7	2.5	4
	173	Scenario 8	2.5	4
	174	Scenario 9	2.5	4
	175	Scenario 10	2.5	4
	176	Scenario 11	2.5	4
	177	Scenario 12	2.5	4
	178	Scenario 13	2.5	4
	179	Scenario 14	2.5	4
Arming scenar- ios	180	Scenario 15	2.5	4
105	181 182	Scenario 16 Scenario 17	2.5 2.5	4
	183	Scenario 18	2.5	4
	184	Scenario 19	2.5	4
	185	Scenario 20	2.5	4
	186	Scenario 21	2.5	4
	187	Scenario 22	2.5	4
	188	Scenario 23	2.5	4
	189	Scenario 24	2.5	4
	190	Scenario 25	2.5	4
	191	Scenario 26	2.5	4
	192 193	Scenario 27 Scenario 28	2.5 2.5	4
	193	Scenario 29	2.5	4
	195	Scenario 30	2.5	4
	196	Armed in Away mode	2.5	4
	197	Stop alarm	2.5	4
	198	Stop call queue	2.5	4
	199	Delete memory	2.5	4
	200	Activate output	2.5	4
	201	Deactivate output	2.5	4
	202	Overtime request	2.5	4
	203 204	Request maintenance StartVoiceNotifier	2.5 2.5	4
	205	Listen-in	2.5	4
	206	Intercom Call	2.5	4
	207	Arm/disarm menu	2.5	4
	208	Alarm management menu	2.5	4
	209	Voice functions	2.5	4
	210	Activations menu	2.5	4
	211	Nexus status	2.5	4
Shortcuts	212	System status	2.5	4
	213	Keypad settings	2.5	4
	214 215	Zone bypass menu Voice memo	2.5 2.5	4
	216	ON/OFF output menu	2.5	4
	217	Enable/Disable answerphone	2.5	4
	218	Enable teleservice	2.5	4
	219	Enable codes	2.5	4
	220	Enable keys	2.5	4
	221	Enable timers	2.5	4
	222	Enable auto-arming	2.5	4
	223	View events log	2.5	4
	224	View alarms log	2.5	4
	225	View faults log	2.5	4
	226 227	View arm/disarm operations	2.5 2.5	4
	44/	View battery status		4
	228	View zone status	2.5	4

			Massage dura	tion (cocondo)
Туре	Number	Default message		tion (seconds) Average qual-
.,,,,			High quality	ity
	330	Zone 60	3.13	5
	331	Zone 61 Zone 62	3.13 3.13	5 5
	333	Zone 63	3.13	5
	334	Zone 64	3.13	5
	335	Zone 65	3.13	5
	336	Zone 66	3.13	5
	337	Zone 67	3.13	5
	338	Zone 68	3.13	5
	339 340	Zone 69 Zone 70	3.13	5 5
	341	Zone 71	3.13	5
	342	Zone 72	3.13	5
	343	Zone 73	3.13	5
	344	Zone 74	3.13	5
	345	Zone 75	3.13	5
	346 347	Zone 76	3.13 3.13	5
	347	Zone 77 Zone 78	3.13	5 5
Zone	349	Zone 79	3.13	5
Terminal	350	Zone 80	3.13	5
	351	Zone 81	3.13	5
	352	Zone 82	3.13	5
	353	Zone 83	3.13	5
	354	Zone 84	3.13	5
	355 356	Zone 85 Zone 86	3.13 3.13	5
	356	Zone 86 Zone 87	3.13	5 5
	358	Zone 88	3.13	5
	359	Zone 89	3.13	5
	360	Zone 90	3.13	5
	361	Zone 91	3.13	5
	362	Zone 92	3.13	5
	363	Zone 93	3.13	5
	364 365	Zone 94 Zone 95	3.13	5
	366	Zone 96	3.13	5
	367	Zone 97	3.13	5
	368	Zone 98	3.13	5
	369	Zone 99	3.13	5
	370	Zone 100	3.13	5
	371	Partition 1	3.13	5
	372 373	Partition 2	3.13	5 5
	373	Partition 3 Partition 4	3.13	5
	375	Partition 5	3.13	5
	376	Partition 6	3.13	5
	377	Partition 7	3.13	5
Partition	378	Partition 8	3.13	5
	379	Partition 9	3.13	5
	380	Partition 10	3.13	5
	381	Partition 11 Partition 12	3.13	5
	383	Partition 13	3.13	5
	384	Partition 14	3.13	5
	385	Partition 15	3.13	5
	386	Code 1	2.5	4
	387	Code 2	2.5	4
	388	Code 3	2.5	4
	389 390	Code 4	2.5	4
Codes	390	Code 5 Code 6	2.5	4
	392	Code 7	2.5	4
	393	Code 8	2.5	4
	394	Code 9	2.5	4
	395	Code 10	2.5	4

120 Voice messages



			Message dura	tion (seconds)
Туре	Number	Default message	High quality	Average qual-
Chartesta	230	Date/Time settings	2.5	ity 4
Shortcuts	231	View faults	2.5	4
Not available	232 - 240 241	V/	1.25	2
	241	Restoral To	1.25 0.63	2
	243	Press	1.25	2
	244	Location	6.25	10
	245	Zero	2.5	4
Generic mes-	246 247	One Two	2.5 2.5	4
sages	248	Three	2.5	4
	249	Four	2.5	4
	250	Five	2.5	4
	251 252	Six Seven	2.5 2.5	4
	253	Eight	2.5	4
	254	Nine	2.5	4
	255	Away mode	3.13	5
Partition status	256 257	Armed in Stay mode Instant mode	3.13 3.13	5 5
	258	Disarm	3.13	5
Menu	259	To go back to previous menu	3.13	5
	260	press * To activate	1.88	3
Activation / Deactivation	261	To deactivate	1.88	3
Type-in user-	262	Type-in user-code PIN followed	2.5	4
code PIN		by #		-
Outputs	263 264	Relay Output 1	2.5	4
Outputs	265	Output 1 Output 2	2.5 2.5	4
Not available	266 - 270	V		· ·
	271	Zone 1	3.13	5
	272	Zone 2	3.13	5
	273 274	Zone 3 Zone 4	3.13 3.13	5 5
	275	Zone 5	3.13	5
	276	Zone 6	3.13	5
	277	Zone 7	3.13	5
	278	Zone 8	3.13	5
	279 280	Zone 9 Zone 10	3.13 3.13	5 5
	281	Zone 11	3.13	5
	282	Zone 12	3.13	5
	283	Zone 13	3.13	5
	284	Zone 14	3.13	5
	285	Zone 15	3.13	5
	286 287	Zone 16 Zone 17	3.13 3.13	5 5
	288	Zone 17 Zone 18	3.13	5
	289	Zone 19	3.13	5
	290	Zone 20	3.13	5
	291	Zone 21	3.13	5
	292 293	Zone 22	3.13	5 5
	293	Zone 23 Zone 24	3.13 3.13	5
	295	Zone 25	3.13	5
	296	Zone 26	3.13	5
	297	Zone 27	3.13	5
	298 299	Zone 28 Zone 29	3.13 3.13	5 5
	300	Zone 29 Zone 30	3.13	5
Zone	301	Zone 31	3.13	5
Terminal	302	Zone 32	3.13	5
	303	Zone 33	3.13	5
	304 305	Zone 34 Zone 35	3.13 3.13	5 5
	305	Zone 35 Zone 36	3.13	5
	307	Zone 37	3.13	5
	308	Zone 38	3.13	5
	309	Zone 39	3.13	5
	310	Zone 40	3.13	5
	311 312	Zone 41 Zone 42	3.13 3.13	5 5
	313	Zone 42 Zone 43	3.13	5
	314	Zone 44	3.13	5
	315	Zone 45	3.13	5
	316	Zone 46	3.13	5
	317 318	Zone 47 Zone 48	3.13 3.13	5 5
	318	Zone 48 Zone 49	3.13	5
	320	Zone 50	3.13	5
	321	Zone 51	3.13	5
	322	Zone 52	3.13	5
	323	Zone 53	3.13	5
	324	Zone 54	3.13	5
	325 326	Zone 55 Zone 56	3.13 3.13	5 5
	327	Zone 57	3.13	5
	328	Zone 58	3.13	5
İ	329	Zone 59	3.13	5
	220	7 60	2.12	
L	330	Zone 60	3.13	5

Туре	Number	Default message	Message dura High quality	Average quality
	396	Key 1	2.5	4
	397 398	Key 2 Key 3	2.5	4
	399	Key 4	2.5	4
Keys	400	Key 5	2.5	4
Reys	401	Key 6	2.5	4
	402 403	Key 7 Key 8	2.5	4
	404	Key 9	2.5	4
	405	Key 10	2.5	4
	406	Keypad 1	2.5	4
17	407	Keypad 2	2.5	4
Keypads	408 409	Keypad 3 Keypad 4	2.5	4
	410	Keypad 5	2.5	4
	411	Reader 1	2.5	4
	412	Reader 2	2.5	4
Readers	413 414	Reader 3 Reader 4	2.5	4
	414	Reader 5	2.5	4
	416	Fire	2.5	4
Function keys	417	Ambulance	2.5	4
Emergency			-	
None available	418 419	Police	2.5	4
ivorie available			2.5	
	420	Zone alarm	2.5	4
	421	Terminal tamper	2.5	4
	422 423	Partition alarm Stay alarm	2.5	4
	423	Partition tamper	2.5	4
	425	Zone bypass	2.5	4
	426	Real time zone	2.5	4
	427	Partition not-ready-to-arm	2.5	4
	428	Away arm request	2.5	4
	429 430	Stay arm request Armed in Away mode	2.5	4
	431	Armed in Stay mode	2.5	4
	432	Reset partition	2.5	4
	433	Partition armed, leave partition	2.5	4
	434	Disarm partition	2.5	4
	435 436	Pre-arm alert	2.5	4
	430	Overtime request Welcome	2.5	4
	438	Forced arming	2.5	4
	439	Failed to arm	2.5	4
	440	Valid user-code	2.5	4
	441	Valid key	2.5	4
	442 443	Valid user-code at keypad Valid key at reader	2.5	4
	444	Valid user-code on partition	2.5	4
	445	Valid key on partition	2.5	4
	446	Failed call	2.5	4
	447	Timer activated	2.5	4
	448 449	Thermostat Scenario	2.5	4
	450	Programmable event	2.5	4
Frank tring	451	Emergency	2.5	4
Event type	452	Open-panel tamper	2.5	4
	453	Dislodged-panel tamper	2.5	4
	454 455	Zone fuse fault I-BUS fuse fault	2.5	4
	456	Battery fault	2.5	4
	457	Mains failure	2.5	4
	458	Expansion tamper	2.5	4
	459	Keypad Tamper	2.5	4
	460 461	Reader Tamper Sounder flasher tamper	2.5	4
	462	Nexus tamper	2.5	4
	463	Expansion Loss	2.5	4
	464	Keypad Loss	2.5	4
	465	Reader Loss	2.5	4
	466 467	Sounder flasher loss Nexus loss	2.5	4
	468	Jamming	2.5	4
	469	Low battery wireless zone	2.5	4
	470	Wireless zone loss	2.5	4
	471	Valid Installer code	2.5	4
	472 473	Invalid code False key	1	-
	473	Nexus fault	1	1
	475	Telephone line down		
	476	Periodic test event	<u></u>	
	477	Hard reset	ļ	
	478	Call queue full	ļ	
	479 480	Successful call	1	1
	480	Initialize programming Ongoing call	1	
	482	Failed to send message		
	483	Output fault		
N	484	Low GSM credit	ļ	
Not available	485	V	27.5	
Voice memo slots	486 - 500	V	37.5 (for all 15 mes- sages)	(for all 15 mes sages)

Voice messages 121



Appendix E

SCREW TERMINALS

All the terminals on the SmartLiving control panel and its peripherals (expansions and keypads) are identified by distinctive numbers transcribed in the "CCC" programming field of the "CONTACT-ID" protocol, in order to allow the precise localization of events related to zones or terminals.

In the case of double zones, the second zone will be identified by the number "500 + n." (where "n." stands for the number of the terminal).

n.	SLiving 505	SLiving 515	SLiving 1050	SLiving 10100
1	Panel T1	Panel T1	Panel T1	Panel T1
2	Panel T2	Panel T2	Panel T2	Panel T2
3	Panel T3	Panel T3	Panel T3	Panel T3
4	Panel T4	Panel T4	Panel T4	Panel T4
5	Panel T5	Panel T5	Panel T5 Panel T6	Panel T5 Panel T6
7			Panel T7	Panel T7
8			Panel T8	Panel T8
9			Panel T9	Panel T9
10			Panel T10	Panel T10
11	Exp. 1 T1	Exp. 1 T1	Exp. 1 T1	Exp. 1 T1
12	Exp. 1 T2	Exp. 1 T2	Exp. 1 T2	Exp. 1 T2
13	Exp. 1 T3	Exp. 1 T3	Exp. 1 T3	Exp. 1 T3
14	Exp. 1 T4	Exp. 1 T4	Exp. 1 T4	Exp. 1 T4
15	Exp. 1 T5	Exp. 1 T5	Exp. 1 T5	Exp. 1 T5
16 17	Exp. 2 T1 Exp. 2 T2	Exp. 2 T1 Exp. 2 T2	Exp. 2 T1 Exp. 2 T2	Exp. 2 T1 Exp. 2 T2
18	Exp. 2 T3	Exp. 2 T3	Exp. 2 T3	Exp. 2 T3
19	Exp. 2 T4	Exp. 2 T4	Exp. 2 T4	Exp. 2 T4
20	Exp. 2 T5	Exp. 2 T5	Exp. 2 T5	Exp. 2 T5
21	Exp. 3 T1	Exp. 3 T1	Exp. 3 T1	Exp. 3 T1
22	Exp. 3 T2	Exp. 3 T2	Exp. 3 T2	Exp. 3 T2
23	Exp. 3 T3	Exp. 3 T3	Exp. 3 T3	Exp. 3 T3
24	Exp. 3 T4	Exp. 3 T4	Exp. 3 T4	Exp. 3 T4
25	Exp. 3 T5	Exp. 3 T5	Exp. 3 T5	Exp. 3 T5
26	Exp. 4 T1	Exp. 4 T1	Exp. 4 T1	Exp. 4 T1
27 28	Exp. 4 T2 Exp. 4 T3			
29	Exp. 4 T3	Exp. 4 T3 Exp. 4 T4	Exp. 4 T4	Exp. 4 T3
30	Exp. 4 T5	Exp. 4 T5	Exp. 4 T5	Exp. 4 T5
31	Keyp. 1 T1	Exp. 5 T1	Exp. 5 T1	Exp. 5 T1
32	Keyp. 1 T2	Exp. 5 T2	Exp. 5 T2	Exp. 5 T2
33	Keyp. 2 T1	Exp. 5 T3	Exp. 5 T3	Exp. 5 T3
34	Keyp. 2 T2	Exp. 5 T4	Exp. 5 T4	Exp. 5 T4
35	Keyp. 3 T1	Exp. 5 T5	Exp. 5 T5	Exp. 5 T5
36	Keyp. 3 T2	Exp. 6 T1	Exp. 6 T1	Exp. 6 T1
37	Keyp. 4 T1 Keyp. 4 T2	Exp. 6 T2 Exp. 6 T3	Exp. 6 T2 Exp. 6 T3	Exp. 6 T2 Exp. 6 T3
39	Keyp. 4 T2 Keyp. 5 T1	Exp. 6 T3 Exp. 6 T4	Exp. 6 T3 Exp. 6 T4	Exp. 6 T3 Exp. 6 T4
40	Keyp. 5 T2	Exp. 6 T5	Exp. 6 T5	Exp. 6 T5
41	. ко/р. о	Exp. 7 T1	Exp. 7 T1	Exp. 7 T1
42		Exp. 7 T2	Exp. 7 T2	Exp. 7 T2
43		Exp. 7 T3	Exp. 7 T3	Exp. 7 T3
44		Exp. 7 T4	Exp. 7 T4	Exp. 7 T4
45		Exp. 7 T5	Exp. 7 T5	Exp. 7 T5
46		Exp. 8 T1	Exp. 8 T1	Exp. 8 T1
47		Exp. 8 T2 Exp. 8 T3	Exp. 8 T2 Exp. 8 T3	Exp. 8 T2 Exp. 8 T3
48		Exp. 8 T3 Exp. 8 T4	Exp. 8 T3 Exp. 8 T4	Exp. 8 T3 Exp. 8 T4
50		Exp. 8 T5	Exp. 8 T5	Exp. 8 T5
51		Exp. 9 T1	Exp. 9 T1	Exp. 9 T1
52		Exp. 9 T2	Exp. 9 T2	Exp. 9 T2
53		Exp. 9 T3	Exp. 9 T3	Exp. 9 T3
54		Exp. 9 T4	Exp. 9 T4	Exp. 9 T4
55		Exp. 9 T5	Exp. 9 T5	Exp. 9 T5
56		Exp. 10 T1	Exp. 10 T1	Exp. 10 T1
57		Exp. 10 T2	Exp. 10 T2	Exp. 10 T2
58 59		Exp. 10 T3 Exp. 10 T4	Exp. 10 T3 Exp. 10 T4	Exp. 10 T3 Exp. 10 T4
60		Exp. 10 T5	Exp. 10 T5	Exp. 10 T5
55		p. 10 10	p. 10 13	

n.	SLiving 515	SLiving 1050	SLiving 10100
61	Keyp. 1 T1	Exp. 11 T1	Exp. 11 T1
62	Keyp. 1 T2	Exp. 11 T2	Exp. 11 T2
63	Keyp. 2 T1	Exp. 11 T3	Exp. 11 T3
64	Keyp. 2 T2	Exp. 11 T4	Exp. 11 T4
65	Keyp. 3 T1	Exp. 11 T5	Exp. 11 T5
66	Keyp. 3 T2	Exp. 12 T1	Exp. 12 T1
67	Keyp. 4 T1	Exp. 12 T2	Exp. 12 T2
68	Keyp. 4 T2	Exp. 12 T3	Exp. 12 T3
69	Keyp. 5 T1	Exp. 12 T4	Exp. 12 T4
70	Keyp. 5 T2	Exp. 12 T5	Exp. 12 T5
71	.ко/р. о	Exp. 13 T1	Exp. 13 T1
72		Exp. 13 T2	Exp. 13 T2
73		Exp. 13 T3	Exp. 13 T3
74		Exp. 13 T4	Exp. 13 T4
75		Exp. 13 T5	Exp. 13 T5
76		Exp. 14 T1	Exp. 14 T1
77		Exp. 14 T2	Exp. 14 T2
78		Exp. 14 T3	Exp. 14 T3
79		Exp. 14 T4	Exp. 14 T4
80		Exp. 14 T5	Exp. 14 T5
81		Exp. 15 T1	Exp. 15 T1
82		Exp. 15 T2	Exp. 15 T2
83		Exp. 15 T3	Exp. 15 T3
84		Exp. 15 T4	Exp. 15 T4
85		Exp. 15 T5	Exp. 15 T5
86		Exp. 16 T1	Exp. 16 T1
87		Exp. 16 T2	Exp. 16 T2
88		Exp. 16 T3	Exp. 16 T3
89		Exp. 16 T4	Exp. 16 T4
90		Exp. 16 T5	Exp. 16 T5
91		Exp. 17 T1	Exp. 17 T1
92		Exp. 17 T2	Exp. 17 T2
93		Exp. 17 T3	Exp. 17 T3
94		Exp. 17 T4	Exp. 17 T4
95		Exp. 17 T5	Exp. 17 T5
96		Exp. 18 T1	Exp. 18 T1
97		Exp. 18 T2	Exp. 18 T2
98		Exp. 18 T3	Exp. 18 T3
99		Exp. 18 T4	Exp. 18 T4
100		Exp. 18 T5	Exp. 18 T5
101		Exp. 19 T1	Exp. 19 T1
102		Exp. 19 T2	Exp. 19 T2
103		Exp. 19 T3	Exp. 19 T3
104		Exp. 19 T4	Exp. 19 T4
105		Exp. 19 T5	Exp. 19 T5
106		Exp. 20 T1	Exp. 20 T1
107		Exp. 20 T2	Exp. 20 T2
108		Exp. 20 T3	Exp. 20 T3
109		Exp. 20 T4	Exp. 20 T4
110		Exp. 20 T5	Exp. 20 T5
111		Keyp. 1 T1	Exp. 21 T1
112		Keyp. 1 T2	Exp. 21 T2
113		Keyp. 2 T1	Exp. 21 T3
114		Keyp. 2 T2	Exp. 21 T4
115		Keyp. 3 T1	Exp. 21 T5
116		Keyp. 3 T2	Exp. 22 T1
117		Keyp. 4 T1	Exp. 22 T2
118		Keyp. 4 T2	Exp. 22 T3
119		Keyp. 5 T1	Exp. 22 T4
120		Keyp. 5 T2	Exp. 22 T5

	n.	SLiving 1050	SLiving 10100
-	121	Keyp. 6 T1	Exp. 23 T1
	122	Keyp. 6 T2	Exp. 23 T2
	123		Exp. 23 T3
	124		Exp. 23 T4
	125	Keyp. 8 T1	Exp. 23 T5
	126	Keyp. 8 T2	Exp. 24 T1
	127	Keyp. 9 T1	Exp. 24 T2
	128		Exp. 24 T3
	129		Exp. 24 T4
	130		Exp. 24 T5
	131	, ,	Exp. 25 T1
	132		Exp. 25 T2
	133		Exp. 25 T3
	134		Exp. 25 T4
	135		Exp. 25 T5
	136		Exp. 26 T1
_	137		Exp. 26 T2
_	138		Exp. 26 T3
	139		Exp. 26 T4
_	140		Exp. 26 T5
	141		Exp. 27 T1
	142		Exp. 27 T2
	143		Exp. 27 T3
	144		Exp. 27 T4
	145		Exp. 27 T5
	146		Exp. 28 T1
	147		Exp. 28 T2
	148		Exp. 28 T3
	149		Exp. 28 T4
	150		Exp. 28 T5
	151		Exp. 29 T1
	152		Exp. 29 T2
	153		Exp. 29 T3
	154 155		Exp. 29 T4 Exp. 29 T5
_			
	156 157		
_	158		
_	150		
_	160		Exp. 30 T4 Exp. 30 T5
_	161		Exp. 30 13
	162		Exp. 31 T2
	163		Exp. 31 T3
-	164		Exp. 31 T4
-	165		Exp. 31 T5
_	166		Exp. 32 T1
-	167		Exp. 32 T2
-	168		Exp. 32 T3
	169		Exp. 32 T4
	170		Exp. 32 T5
-	171		Exp. 33 T1
	172		Exp. 33 T2
	173		Exp. 33 T3
	174		Exp. 33 T4
	175		Exp. 33 T5
	176		Exp. 34 T1
	177		Exp. 34 T2
	178		Exp. 34 T3
	179		Exp. 34 T4
	180		Exp. 34 T5

	10100
181	Exp. 35 T1
-	
182	
183	Exp. 35 T3
184	Exp. 35 T4
185	Exp. 35 T5
186	Exp. 36 T1
187	Exp. 36 T2
_	
188	Exp. 36 T3
189	Exp. 36 T4
190	Exp. 36 T5
191	Exp. 37 T1
192	Exp. 37 T2
193	Exp. 37 T3
	Exp. 37 T4
194	
195	Exp. 37 T5
196	Exp. 38 T1
197	Exp. 38 T2
198	Exp. 38 T3
199	Exp. 38 T4
200	Exp. 38 T5
201	Exp. 39 T1
202	Exp. 39 T2
203	Exp. 39 T3
204	Exp. 39 T4
205	Exp. 39 T5
206	Exp. 40 T1
207	Exp. 40 T2
208	Exp. 40 T3
209	Exp. 40 T4
210	Exp. 40 T5
211	Keyp. 1 T1
212	- 7 F
213	Keyp. 2 T1
214	Keyp. 2 T2
215	Keyp. 3 T1
216	Keyp. 3 T2
217	Keyp. 4 T1
218	Keyp. 4 T2
219	Keyp. 5 T1
220	Keyp. 5 T2
221	Keyp. 6 T1
222	Keyp. 6 T2
223	Keyp. 7 T1
224	Keyp. 7 T2
225	Keyp. 8 T1
226	Keyp. 8 T2
227	Keyp. 9 T1
228	Keyp. 9 T2
229	
230	Keyp. 10 T2
231	Keyp. 11 T1
232	Keyp. 11 T2
233	Keyp. 12 T1
234	Keyp. 12 T2
235	
$\overline{}$	- 7 1: -
236	Keyp. 13 T2
237	Keyp. 14 T1
238	Keyp. 14 T2
239	Keyp. 15 T1
	Keyp. 15 T1 Keyp. 15 T2

SLiving 10100

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Appendix F

COMBINATION OF OUTPUTS TRIGGERED BY EVENTS

This appendix shows the event-generated actions (activations/deactivations) of the outputs programmed in the "Outputs" and "Other outputs" sections combined with the "SirenSound types" of the sounderflashers on the BUS.

Tabella F-1: Output typology

Symbol/Initials	Description		
TM	Output on terminal/Relay/OC1/OC2 - monostable		
ТВ	Output on terminal/Relay/OC1/OC2 - bistable		
SM	Sounderflasher output with limited flasher time		
SB	Sounderflasher output with unlimited flasher time		

Tabella F-2: Functioning and deactivation of the outputs

Symbol/Initials	Description		
Α	These outputs will deactivate if a Stop alarm, Reset partition or Disarm operation is carried out while the monostable time of the main output is running.		
В	These outputs will deactivate only when the event clears after expiry of the monostable time of the main output.		
С	These outputs, due to the continuous flasher function, will not deactivate automatically. In order to deactivate the SB flashers of the sounderflasher after expiry of the monostable time applied to the main output, you must: • trigger an event which applies a Stop pattern to the SB flashers • reset the partition		
D	These outputs will deactivate only when the event clears.		
E	These outputs will deactivate if, when an event is active, a Stop alarm operation, reset or disarm partition command operation is carried out.		
F	These outputs, due to the continuous flasher function, will not deactivate automatically. In order to deactivate the SB flashers of the device on termination of the event, you must: • trigger an event which applies a Stop pattern to the SB flashers • reset the partition		
G	These outputs will deactivate when the respective monostable time expires		

Tabella F-3: Output combinations

labella F-3: Output combinations								
Event groups	Principal output				Other outputs			
Event groups	TM	ТВ	SM	SB	TM	ТВ	SM	SB
Zana Alaum	A G				A G	A B	A G	A C
Zone Alarm terminal tamper		DE			E G	DG	E G	F
partition alarm partition tamper			A G		A G	A B	A G	A C
partition tamper				F	E G	DG	E G	F
Control panel open Dislodged panel	A G				A G	A D	A G	A C
Expansion tamper/loss Keypad tamper/loss Reader tamper/loss		DE			E G	DG	E G	С
Sounderflasher tamper/loss Jamming			A G		A G	A B	A G	A C
Wireless zone loss Telephone line down				F	E G	D G	E G	С
	G				G	В	G	С
other events		D			G	D	G	F
other events			G		G	В	G	С
				F	G	С	G	С



Appendix G

SIA CODES

	Codes	Event type			
Event acti- vation	Event resto- ral	English	Italian		
ВА	BR	Burglary alarm	Violation/Intrusion alarm		
ВВ	BU	Burglary bypass	Intrusion detectors dis- abled		
ВТ	BR	Burglary trouble	Intrusion detector fault		
BV	BR	Burglary verified	Violation/Intrusion con- firmed		
CA	OA	Automatic closing	Automatic arming		
CL	OP	Closing report	Arming notification		
СР	OA	Automatic closing	Automatic arming		
DO	DR	Access open	Access open		
FA	FR	Fire alarm	Fire detector activated		
FB	FU	Fire bypass	Fire detector disabled		
FI	FK	Fire test begin	Start fire test		
FT	FJ	Fire trouble	Fire detector fault		
GA	GH	Gas alarm	Gas detected		
GB	GU	Gas bypass	Gas detector disabled		
GT	GJ	Gas trouble	Gas detector fault		
HA	HR	Hold-up alarm	Duress alarm		
НВ	HU	Hold-up bypass	Duress option disabled		
НТ	НЭ	Hold-up trouble	Duress-signalling device fault		
KA	KR	Heat alarm	Heat threshold exceeded		
KB	KU	Heat bypass	Heat detector disabled		
KT	KJ	Heat trouble	Heat detector fault		
LT	LR	Phone line	Telephone line down		
MA	MR	Medical alarm	Medical emergency		
МВ	MU	Medical bypass	Medical assistance option disabled		
MT	MJ	Medical trouble	Medical assistance sig- nalling-device fault		
NL	OP	Perimeter armed	Stay mode active		
ОТ	OJ	Late to close	Late to close		
PA	PR	Panic alarm	Rescue request		
PB	PU	Panic bypass	Rescue option disabled		
PT	PJ	Panic trouble	Panic trouble		
QA	QR	Emergency alarm	Call for help		
QB	QU	Emergency bypass	Emergency option dis- abled		
QT	QJ	Emergency trouble Emergency-signall device fault			
SA	SR	Sprinkler alarm	Sprinkler alarm		
SB	SU	Sprinkler bypass Sprinkler disab			
ST	SJ	Sprinkler trouble	Sprinkler fault		

SIA Codes		Event type				
Event acti-	Event resto-		Italian			
vation	ral	English	Italian			
TA	TR	Tamper alarm	Tamper alarm			
ТВ	TU	Tamper bypass	Tamper option disabled			
UA	UR	Untyped zone alarm	Generic zone alarm			
UB	UU	Untyped zone bypass	Generic zone disable			
UT	UR	Untyped zone trouble	Generic zone fault			
WB	WU	Water bypass	Water detector disabled			
WT	WJ	Water trouble	Water detector fault			
ZB	ZU	Freeze bypass	Low-temperature detector disabled			
ZT	ZJ	Freeze trouble	Low-temperature detector fault			
UX	UX	Undefined	Undefined event			
CF	OP	Forced closing	Forced arming			
NF	NF	Forced perimeter	Forced perimeter arm- ing			
ВС	UX	Burglary cancel	Deletion of intrusion memory			
CE	UX	Closing extend	Closing extend			
JP	UX	User on premises	Recognized access code			
YC	YK	Communication fail	Unsuccessful report			
MA	МН	Medical alarm	Medical emergency			
RB	UX	Remote program begin	Start remote program- ming			
YP	YQ	Power supply trouble	General power-supply fault			
YT	YR	System battery trouble	Battery fault			
ET	ER	Expansion trouble	I/O expansion fault			
XT	XR	TX battery trouble	Low battery on wireles device			
LB	LX	Local program	Start local program- ming			
DD	DR	Access denied	Wrong code			
RP	UX	Automatic test	Automatic communication test			
JL	UX	Log threshold	Events log full			
AT	AR	AC trouble	Mains faults			
JR	JS	Schedule executed	Schedule executed			
ΥI	YS	Overcurrent trouble	Overvoltage fault			
EM	EN	Expansion device missing	I/O expansion loss			
YK	UX	Communications restoral	Communications re- established			
ου	ov	Output state trouble	Output fault			
CI	UX	Fail to close Unsuccessful armin operation				

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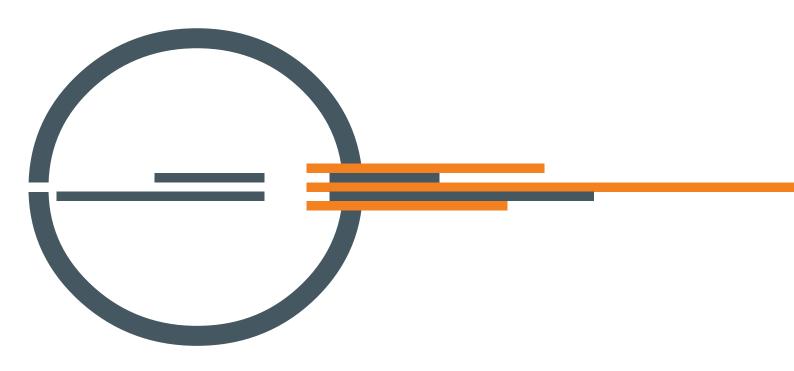
SIA Codes 125



126 SIA Codes



Notes





ISO 9001 Quality Management certified by BSI with certificate number FM530352

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