sol

ANTI-INTRUSION CONTROL PANELS

CE

Control panel models

Sol is a series of wireless control panels created for fast installation of alarm systems in small residential and business premises. The Sol control panel is available in 3 models Sol/S, Sol/G Sol/P, with 30 wireless terminals, 5 partitions and up to 4000 events in memory.

It is also possible to add an Air2-BS200 transceiver and an nBy/S or nBy/X reader to the system.

The Sol guarantees certified safety at maximum level. The system complies with EN50131 Grade 2 and with EN50136 ATS-6.

• 3 models:

  - **Sol/S**: control panel with no display or keypad, equipped with 7 LEDs

  - **Sol/G**: control panel with frontplate equipped with monochrome LCD display, touch-sense keypad and 4 LEDs

  - **Sol/P**: control panel with frontplate equipped with TFT colour display with resistive touch-screen and 4 LEDs

• 100-240V ~ 15% + 10% 50/60Hz extended range power supply
• 2200mAh rechargeable NiMH buffer battery
• Maximum currents:
  - 200mA on additional peripherals (Air2-BS200 transceiver and nBy readers)
  - 100mA on terminal + AUX
  - 250mA on T1 and T2 open-collector terminals (with external power source)
• 2 hardwired terminals
• 5 partitions
• Up to 30 wireless terminals
• Up to 8 wireless Aria/W keypads
• Up to 8 wireless Hedera and Smarty/W sounders
• Up to 4000 event memory capacity
• Each model EN50131 Grade 2 compliant
• Integrated USB port
• Optional modules/boards:
  - **Sol-WiFi**: IP connectivity over WiFi networks, IEEE 802.11b/g/n standard (2.4GHz networks)
  - **Sol-LAN/S**: IP connectivity over hardwired LANs
  - **Sol-3G**: GSM/GPRS/HDSPA connectivity over 2G/3G mobile phone networks
  - **Sol-PSTN**: PSTN wired telephone line connectivity

Control

• Installer App **InimTech Security**: fast system programming with "QuickGo" technology with push notifications, control panel and fault geolocation, multicontrol panel and multiplatform
• Sol/STUDIO dedicated programming software (for INIM installers only)
• Firmware upgradeable in "safe" mode via the Sol/STUDIO programming software
• Guided user menu in the event of an alarm
• Text-driven programming menu (for INIM installers only)
• User App : notifications for security management and home automation
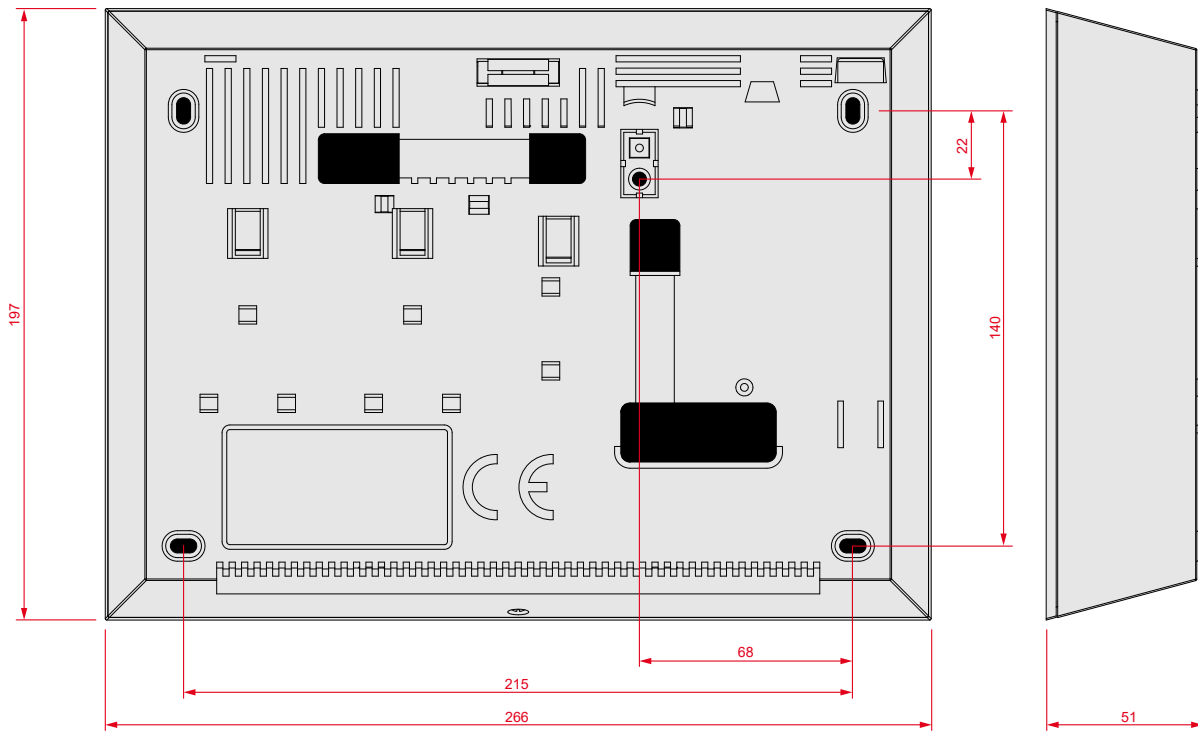• Peer-to-peer or multicontrol-panel and multi-platform Cloud management.

Functions

• Voice functions: intercom, voice mailbox, guided menu, local dialler, environment listen-in (Sol/G and Sol/P)
• Home automation functions: lighting control with dimmer, chronothermostat, management of roller blinds and motorizations, analogue outputs, timed activations.
• Management of intrusion-control and home-automation scenarios.
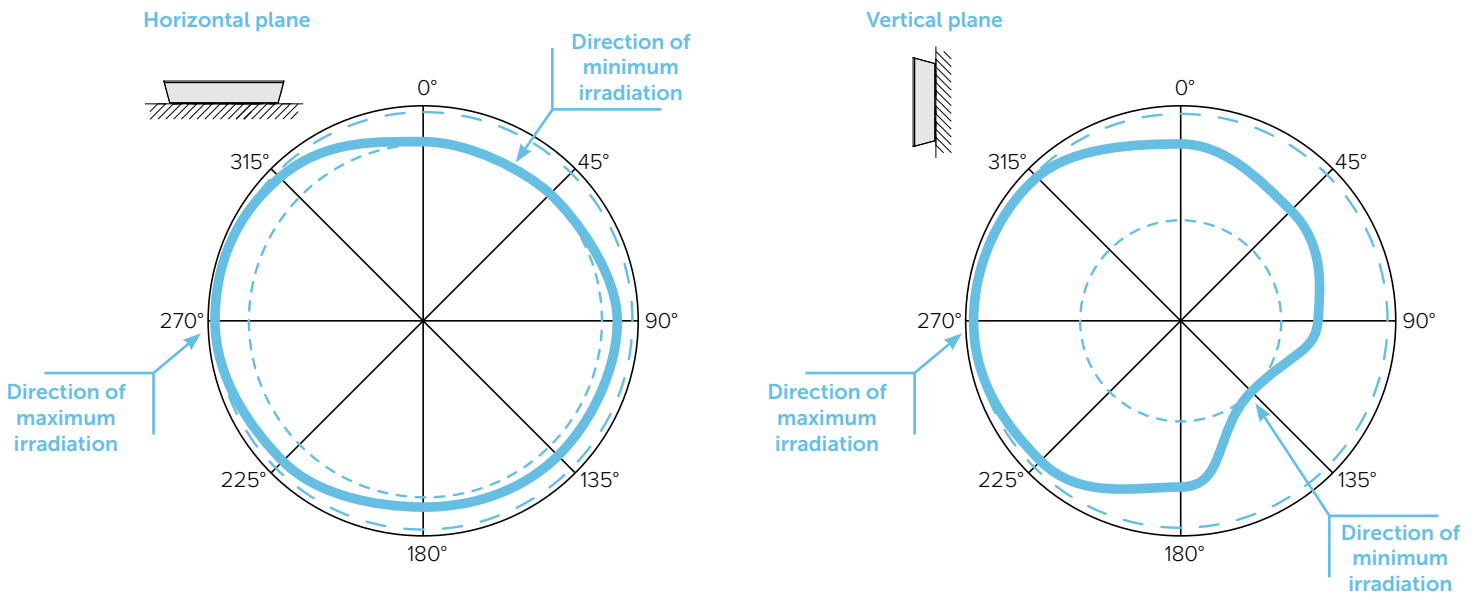
SOL

Connectivity

Alternatively, Sol can be managed by **Inim Cloud** thanks to the network connectivity provided by the Sol-WiFi, Sol-LAN/S and Sol-3G modules. All that is required is for the control panel to be connected to the system router to enable it to reach INIM Cloud automatically, there is no need to carry out advanced programming of the router/gateway/switch in order to make the control panel accessible externally. Connection to INIM Cloud is not mandatory but guarantees a series of additional services for both the installer and the end user. Both will have Web access and will be able to manage their systems from any browser.

• LAN connectivity with optional modules and Inim Cloud services, DHCP, NTP and AES encryption
• PSTN, GSM, GPRS, 3G connectivity with voice, digital, SMS dialler
• Cloud connection via 3G and LAN with management of backup channel
• Simultaneous transmission of events over Inim Cloud and other available PSTN, GSM channels

DIMENSIONS

SPATIAL LOBES OF RADIATION FROM THE WIRELESS SYSTEM

Horizontal plane

Vertical plane

EN 50131-1
EN 50131-3
EN 50131-6
EN 50131-10
EN 50136-1
EN 50136-2
EN 50130-4
EN 50130-5
CEB T031

MAIN FEATURES OF THE SOL SYSTEM

	Sol control panels		
	Sol/S	Sol/G	Sol/P
Hardware characteristics			
Display	No	192x64 pixel monochrome LCD	4.3" colour TFT 480x272 pixels
Keypad	No	Touch-sense screen	Touch-screen integrated into display
Signalling LEDs	7	4	4
Microphone	No	Yes	
Buzzer/Speaker	No	Yes	
Integrated sounder	Yes		
Integrated reader	Yes		
Maximum number of terminals and number of mappable or relocatable terminals in the system	30		
On-board terminals (configurable as input/output)	2		
Programmable relays on the main board	Yes		
Programmable 12V outputs	1		
Manageable partitions	5		
IP Connectivity	Optional (via Sol-LAN/S, Sol-WiFi modules)		
Integrated SIA-IP digital communication standard	Optional (via Sol-LAN/S, Sol-WiFi modules)		
Communication over PSTN telephone lines	Optional (via Sol-PSTN module)		
Communication over mobile lines	Optional (via Sol-3G module) over 2G and 3G networks		
Voice functions	Optional (via SmartLogos30M board)		
Maximum voltage on I-BUS	200 mA		
Power supply: maximum current on terminal + AUX	100 mA		
Power supply: maximum current for open-collector outputs	250 mA (with external power source)		
Power supply: maximum current for battery recharge	1 A		
Maximum time for battery recharge	3h		
Backup battery	NiMH 7.2V 2200 mAh		
Battery-charge monitored by battery temperature sensor	Yes		
Battery efficiency test	Yes		
USB port	Yes		
User Apps for smartphones or tablets (Android/iOS)	Yes		
Installer App for smartphones or tablets (Android/iOS)	Yes		
Cloud functions with Inim Cloud services	Yes		
Reprogrammability of control panel firmware	Yes		
Battery housing	Yes		
Dimensions (HxWxD)	197 x 266 x 51 mm		
Weight	1100 g		
Devices on I-Bus			
Peripheral self-learning on the I-Bus	Yes		
nBy proximity readers	1		
Air2 - BS200 transceivers (with automatic channel search)	1		
Air2 series wireless devices			
MC200,MC300 magnetic contacts, XIR200W infrared detectors, XDT200W and DT200T dual technology detectors and FD100 smoke detectors	30		
Aria/W wireless keypads (with addition of BS200)	8		
Hedera and Smarty/W wireless sounders (with addition of BS200)	8		
Remote control keyfobs (KF100, Pebble, Ergo) *	≤ 150		
Authentication			
Installer codes	2		
User codes (with associated timers)	50		
nKey tag or nCard proximity card (with associated timers *	≤ 150		
Telephone communication			
Telephone numbers	15		
Phone line availability check	Yes		
Automatic voice communicator (SmartLogos30M option, see also voice functions)	Yes (with optional modules)		
Integrated automatic digital communicator (ContactID, SIA-IP, pulse)	Yes (with optional modules)		

* The sum of the wireless keys and the tags used must be less than or equal to 150

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Input terminals (zones)

Self-learning of zone balancing *	Yes
Management of two separate zones on each input terminal	Yes
Input terminals on the control panel for shock and roller blind sensors	2
Thresholds of programmable input zones	Yes
Calibration of input thresholds *	Yes

* Patent pending

Other features

Weekly timer with two time slots per day (each with 15 exception periods)	20
Management of summer/winter time	Yes
Automatic date/time update with NTP	Yes
Programmable arming scenarios (settings for partition status and output status)	30
Types of shortcuts for immediate actions	38
Programmable icons	80
Number of events that can generate actions	2830
Events that can be stored in the register	4000
Choice of events to memorize	Yes
Management of shortcuts via function keys (12) and number keys (10) on keypads	Yes
Management of shortcuts via LEDs (4) on nBy readers	Yes
Event-based action generation matrix	Yes
Generation of action when the event occurs	Yes
Generation of action when the event restores	Yes
Zone test from keypad	Yes
User-friendly programming software (runs under Windows)	Yes
Security grade	2
Environmental class	II
Isolation class	II

Compliance

EN50131-3	Grade 2
EN50131-6	Grade 2 - AT56

ORDER CODES

SOL-30S: intrusion-control panel, supports up to 30 devices, LED frontplate
SOL-30G: intrusion-control panel, supports up to 30 devices, graphic LCD and touch-screen keypad
SOL-30P: intrusion-control panel supports up to 30 devices, 4.3" colour touch-screen
Sol-LAN/S: LAN interface
Sol-PSTN: PSTN interface
Sol-3G: 3G GSM interface
Sol-WiFi: WiFi interface
Smatlogos30M: voice board

Inim distributor's stamp
and signature