EN 50131-1
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CEB T031

Flex2R/2T

Domotics and rollerblind module

Installation and programming manual

inim

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1. Description of Flex2R/2T

The Flex2R/2T is an expansion device that provides INIM control panels with a further four terminals.

T1 and T2

Two I/O terminals, which can be configured as:

- Zone (also as roller blind/shock)
- Open Collector output
- I/O terminal
- Double zone

SW1 and SW2

Two relay output terminals, dry contacts normally open whose status is replicated by the two LEDs ‘SW1’ and ‘SW2’ (the LEDs activate in the event of closed contact).

Peripherals

As a control panel peripheral, Flex2R/2T requires connection via I-BUS as well as an address. Subsequently, the operating mode must be selected via the Prime/STUDIO software, which also allows the programming of terminals.

1.1 Description of parts

[A]	Removable flanges with fixing holes
[B]	'ENROLL' button
[C]	'ENROLL' Programming LED
[D]	'SW1' relay output terminals
[E]	'SW1' LED
[F]	'SW2' relay output terminals
[G]	'SW2' LED
[H]	I-BUS terminals
[I]	I/O terminals 'T1' and 'T2'

1.2 Technical specifications of Flex2R/2T

Power supply voltage	from 9 to 15 V ⎓
Current absorption	53 mA
Maximum current available to terminals T1 and T2	50 mA
Features of SW1 and SW2 relays	Purely resistive loads: Max 10A @ 230V~ Max 5A @ 30V ⎓
Operating environmental conditions	
Temperature	from -10 to +40 °C

Relative humidity	≤ 75% without condensation
Security rating	2
Environmental class	II
Dimensions (W x H x D, with flanges)	41 x 69 x 25 mm
Dimensions (W x H x D, without flanges)	41 x 49 x 25 mm
Weight	40g

(EN IEC 62368-1)

Isolation class		
Terminal type	**+ D S -**	ES1, PS2
	T1, T2	ES1, PS1
	SW1, SW2	ES3, PS3

1.3 Operating mode

Flex2R/2T can operate in several modes, to be selected during the programming phase. These operating modes can be divided into three categories:

1. Generic home-automation module
2. Roller-shutter module
3. Light control module

Generic home-automation module

Default operating mode when Flex2R/2T is a control panel peripheral.

In this operating mode all 4 terminals are independent of each other and are managed completely by the control panel.

Roller-shutter module

The terminals in use are linked to a specific function which is defined depending on the type of home-automation selected:

- **Standard roller-shutters module**

  Long pressing the button (i.e. pressing and holding the button) connected to terminal ‘T1’ (/ ‘T2’) will move the roller shutter downwards (/ upwards) until it reaches the end of its down (/ up) position or for the down (/ up) time, summed to the additional programmed time, regardless of its start position.

  The roller shutter will stop when the button is released.

- **‘Smart’ roller-shutters module**

  In this mode the roller shutter will behave as follows:

  - Short pressing the button (i.e. pressing and releasing the button within 1 second) connected to terminal ‘T1’ (/ ‘T2’) will move the roller shutter downwards (/upwards) in steps of a 1/4 of the full run of the roller shutter.
  - Long pressing the button (i.e. pressing and holding the button for at least 1 second) connected to terminal ‘T1’ (/ ‘T2’) will move the roller shutter downwards (/ upwards) to the end of

its run or for the duration of the down (/up) time, summed to the additional programmed time, regardless of the start position.
- Pressing either one of the buttons connected to ‘T1’ or ‘T2’ while the roller shutter is going up or down will stop it.

- **Roller-shutters module with single ON/OFF button**

  Short pressing the button (i.e. pressing and releasing the button within 1 second) connected to terminal "T1" will activate the roller shutter in a repetitive way in accordance with the following scheme:

  - active moving downward
  - stopped
  - active moving upward
  - stopped

  If the roller shutter is not stopped distinctly, it will be active until it reaches the end of its run, or for the down (/up) time, summed to the additional programmed time.

- **Roller-shutters module with one long press button**

  Long pressing the button (i.e. pressing and holding the button) connected to terminal ‘T1’ will activate the roller shutter. On release of the button, the roller shutter will stop.

  The order in which the activations occur is repetitive and in accordance with the following scheme:

  - active moving downward / stopped
  - active moving upward / stopped

  If the button is pressed and held, the roller shutter will be activated until the end of its run, or for the down (/up) time, summed to the additional programmed time.

- **Roller-shutters module with no buttons**

  In this operating mode there are no manual operations: the roller shutter will only carry out commands given by the system.

- **Venetian blind module**

  In this operating mode, the Venetian blind will behave as follows:

  - Short pressing the button (i.e. pressing and releasing the button within 1 second) connected to ‘T1’ (/ ‘T2’), will rotate the Venetian blind slats to the closed (/ open) position, regardless of their initial position, for the programmed duration of a step and up to a maximum number of programmed steps.
  - Long pressing the button (i.e. pressing and holding the button for at least 1 second) connected to ‘T1’ (/ ‘T2’), the Venetian blind will move downwards (/ upwards) towards the end of its run, or for the duration of the down (/ up) time, summed to the additional programmed time.
  - If either of the buttons, connected to ‘T1’ or ‘T2’ is pressed while the blind is opening or closing, the ongoing operation will stop.

Note

In the case of roller shutters or Venetian blinds, the device is equipped with a function for self-calibration of position which, if necessary, can cause the roller shutter to open completely before reaching the selected position.

If the roller shutter has been activated by control panel commands, this command cannot be canceled or stopped by local commands (e.g. by button).

Light control module

The terminals in use are linked to a specific function which is defined in accordance with the selected type of lighting control:

- **One light point module with switch**

  In this operating mode, the light point connected to terminal ‘SW1’ will be switched on when the switch connected to terminal ‘T1’ is closed. Vice versa, it will be off when the switch is open.

  The switch connected to terminal ‘T1’ acts as a diverter with respect to any output activation or deactivation commands given by the control panel to the respective ‘SW1’ terminal.

- **Two-point light module with switch**

  In this mode, the light point connected to terminal ‘SW1’ (/ ‘SW2’) will be switched on when the switch connected to terminal ‘T1’ (/ ‘T2’) is closed. Vice versa, it will be off when the switch is open.

  The switch connected to terminal ‘T1’ (/ ‘T2’) acts as a diverter with respect to any output activation or deactivation commands given by the control panel to the respective terminal ‘SW1’ (/ ‘SW2’).

- **Button module with one light point**

  In this operating mode, the light point connected to terminal ‘SW1’ will switch its on/off status each time the button connected to terminal ‘T1’ is pressed or when it receives output activation or deactivation commands given by the control panel to the respective ‘SW1’ terminal.

- **Button module with two light points**

  In this operating mode, the light point connected to terminal ‘SW1’ (/ ‘SW2’) will switch its on/off status each time the button connected to terminal ‘T1’ (/ ‘T2’) is pressed or it receives output activation or deactivation commands given by the control panel to the respective ‘SW1’ (/ ‘SW2’) terminal.

2. Installation of Flex2R/2T

Flex2R/2T does not have integrated tamper protection and exposes the cables in use to possible tampering.

It is therefore advisable to protect the connections and also the device by installing it inside an enclosure, which can be:

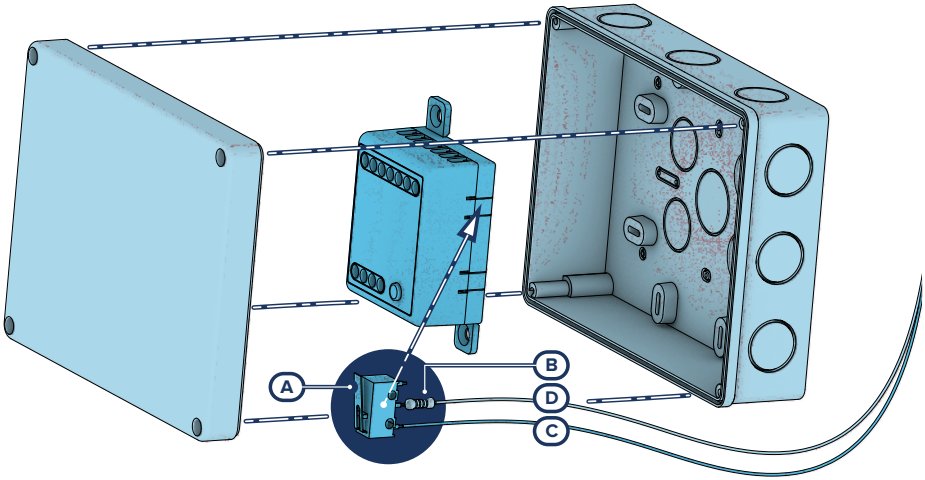
- control panel cabinet, using the appropriate holes on the back plate
- junction box
- electrical cabinet
- roller-shutter enclosure

Note

In order to comply with standard 50131, the enclosure utilized as well as the device itself must be equipped with tamper protection.

1. Choose a suitable mounting placement.
   If the control panel cabinet is used, the control panel must be disconnected completely from both the primary-power source (230V~) and the buffer battery.
2. Secure the device enclosure inside the box.
   If the control panel cabinet is used, secure the plastic enclosure via the threaded holes on the back plate.
3. Pull the wires through the cable entry and wire up the device.
4. Install the device *tamper* protection.
5. Enroll the device.
6. Close the box.
7. If the control panel cabinet is used, power up the control panel again by connecting the primary-power source (230V~) and the buffer battery.

2.1 Anti-tamper



The peripherals with visible terminals and which do not have an anti-tamper device can still be equipped with protection by intervening on the assembly procedure.

Please note that in order to comply with security standards, all the control panel peripherals must be protected against tamper.

Here we provide information on one of the possible procedures that can be adopted. This involves the assembly of a microswitch on the device, which signals any attempted tamper, and the consequent programming of the terminal used for this contact.

1. Procure a microswitch with at least two normally-open contacts *[A]* (preferably with 3 contacts: COM-NO-NC).
2. Employ a terminal and program it as a '24H' input, whose description type is 'Tamper', balanced with a single 6K8Ω *[B]* resistance, unlimited alarm cycles and belonging to a partition that is viewable on at least one keypad.
3. Using 2 wires, connect the microswitch to the '24H' input terminal.
4. On the microswitch:
   - identify the common contact (COM) and connect it using one of the two wires, to the GND terminal of the '24H' terminal *[C]*.
   - identify the normally open contact (N.O., which is the contact that generates a short-circuit between the contact itself and the COM contact when the switch lever is compressed) and connect one end of the 6k8Ω resistor to it *[D]*.
     Connect the other end of the resistance to the wire which is connected to the '24H' input terminal.
5. Install the microswitch in such a way that under normal conditions the switch lever is compressed. If a tamper attempt occurs, the lever will release thus generating the opening of the contact and an immediate alarm on the '24H' terminal.

Note

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.

2.2 Connecting the Flex2R/2T module

As a peripheral, Flex2R/2T must be connected to the control panel through the available '**+ D S -**' terminals.

Terminals 'SW1' and 'SW2' can be used for connections with both AC and DC powered devices.

Attention!

Dangerous outputs

In normal operating conditions of a 'SELV' circuit, the voltage between any two of its conductors or between any of them and Ground must not exceed 42.4V peak or 60V DC. When these values are exceeded, the voltage is to be considered hazardous.

The installer can choose to use the 'SW1' and 'SW2' outputs to drive exclusively 2 hazardous voltage devices or 2 safe voltage devices (SELV). The mixed use of dangerous voltage and safe voltage on these terminals is strictly prohibited.

If the outputs are used on mains (hazardous) voltage, in addition to the above requirements, it is necessary to take the following compulsory measures:

- to connect in series an appropriate protection fuse to the selected output
- to use through phase only or through neutral only for all the terminals

The connections for home-automation functions, or for operating as a roller-shutter or light control module, depend on the operating mode selected during the programming phase.

- **Home-automation module**

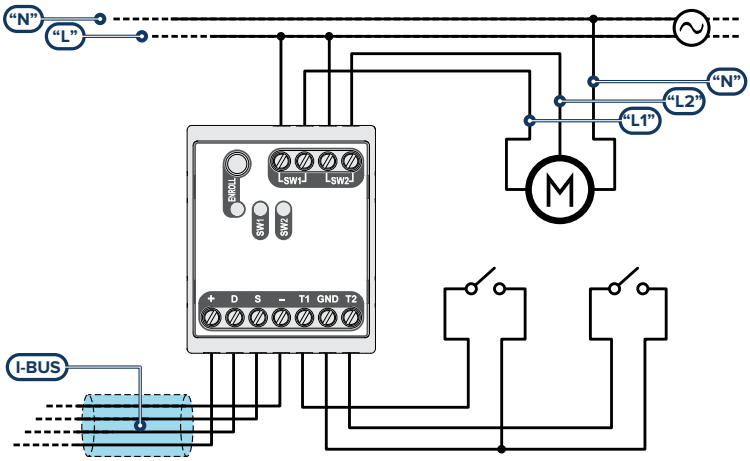
  The 4 terminals are all independent and can be controlled via the control panel.

  They can be wired for any of the functions available to them.

- **Standard roller-shutters module**

  'Smart' roller-shutters module

  Venetian blind module

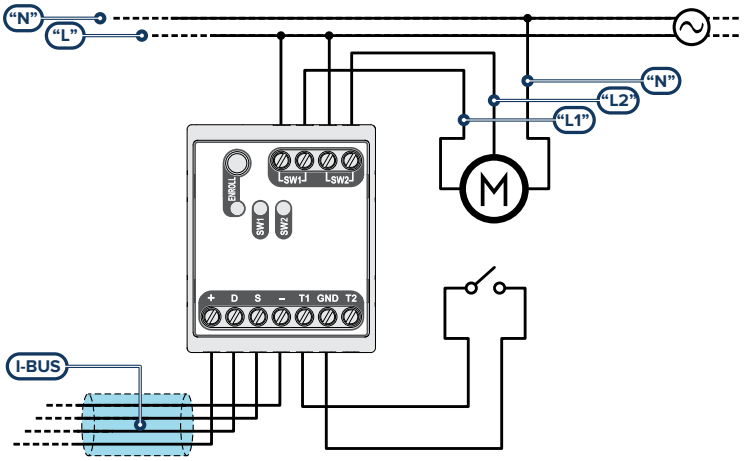


For this operating mode it is necessary to connect two buttons to terminals 'T1' and 'T2', respectively for driving the roller shutter up or down. We recommend a double or tilting pushbutton panel, with mechanical interlock, specially designed for roller shutters.

Terminals 'SW1' and 'SW2' must be connected respectively to the up and down phases of the roller shutter.

- **Roller-shutters module with single ON/OFF button**

  Roller-shutters module with one long press button

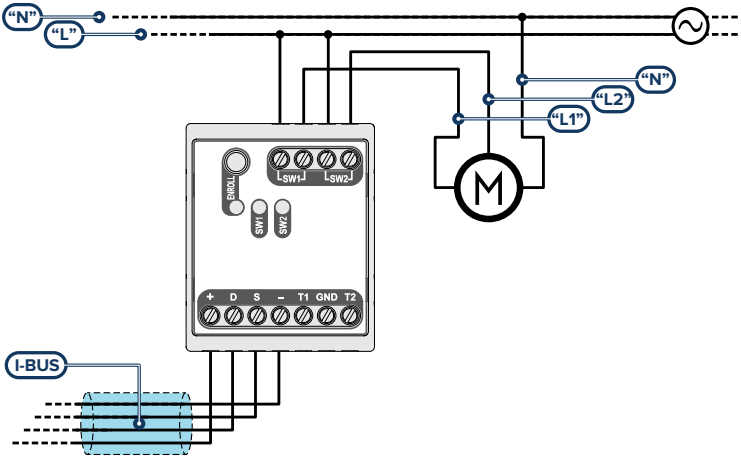


For this operating mode, a single button must be connected to terminal ‘T1’ in order to drive the roller shutter.

Terminals ‘SW1’ and ‘SW2’ must be connected respectively to the up and down phases of the roller shutter.

Terminal ‘T2’ remains available for use via the control panel and can be wired for any of the supported functions.

- **Roller-shutters module with no buttons**



For this operating mode it is necessary to connect terminals ‘SW1’ and ‘SW2’ respectively to the up and down phases of the roller shutter.

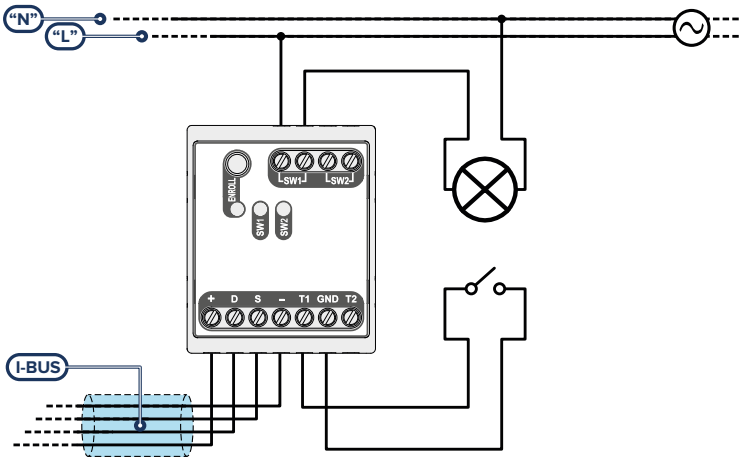
Terminals ‘T1’ and ‘T2’ remain available for use via the control panel and can be wired for any of the supported functions.

Note

To use Flex2R/2T in any of the roller shutter/Venetian blind modes, make sure that the motor is equipped with an internal-limit switch or, alternatively, install independent external-limit switches.

- **One light point module with switch**

  Button module with one light point

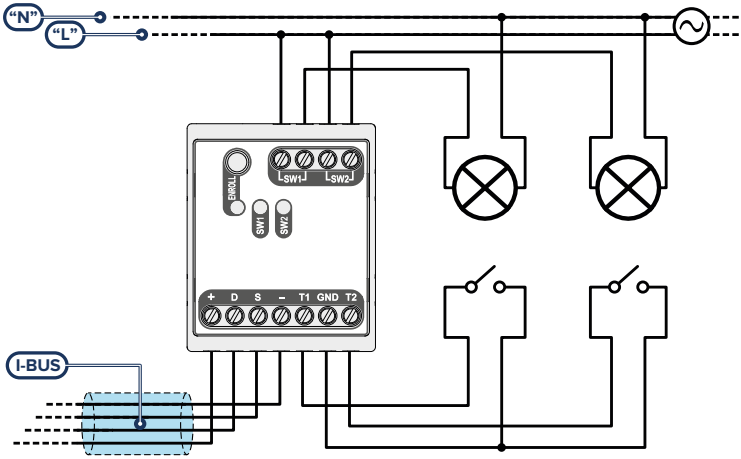


For this operating mode, a switch/button must be connected to terminal 'T1' in order to control the light point. Terminal 'SW1' must be connected to the light point that is to be controlled.

Terminals 'T2' and 'SW2' remain available for use via the control panel and can be wired for any of the supported functions.

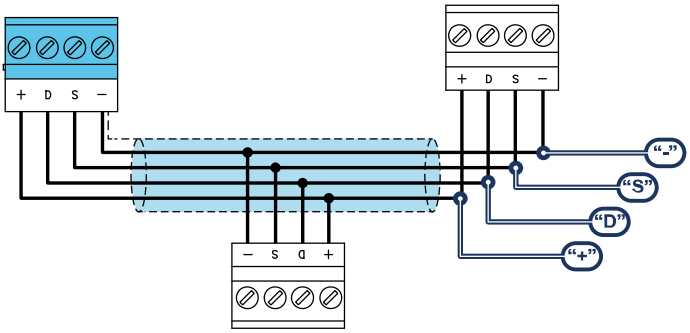
- **Two-point light module with switch**

  Button module with two light points



For this operating mode, it is necessary to connect two switches/buttons to terminals 'T1' and 'T2' respectively to control the light points connected to terminals 'SW1' and 'SW2'.

2.3 Connecting to the I-BUS line



The peripheral devices of Inim Electronics control panels are to be connected to the control panel via the I-BUS.

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

Attention!

The shield must be connected to one of the ground terminals (or GND) only on the control panel side and must follow the entire BUS without being connected to ground in other points.

The control panel connection is done using terminals '**+ D S -**' on the motherboard.

Sizing

The sizing of the I-BUS line, i.e. the distribution of peripherals and the use of cables to connect them, must be done on the basis of various project factors, in order to ensure the diffusion of the signals of conductors '**D**' and '**S**' and the power supplied by conductors '**+**' and '**-**'.

The factors are:

- The current consumption of the connected devices.

  In the case of insufficient power supply from the BUS line to peripherals and detectors (refer to the Technical specifications table), this can also be supplied by external power supplies.

- Cable type

  The cable section used affects the dispersion of the conductor signals.

Recommended cable

Cable AF CEI 20-22 II	number of conductors	section (mm2)	I-BUS terminal
4 wire cable + shield	2	0.5	**+ -**
	2	0.22	**D S**

Cable AF CEI 20-22 II	number of conductors	section (mm2)	I-BUS terminal
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

- Communication speed over the BUS

  This parameter can be changed by means of the programming software (38.4, 125 or 250kbs).

BUS sizing

BUS speed	maximum admissible length (sum of the sections downstream of the control panel or of an isolator)
38.4kbps	500m
125kbps	350m
250kbps	200m

- Number and distribution of IB200 isolators.

  To increase the reliability and the extension of the BUS, it is necessary to use isolators.

2.4 Flex2R/2T project

After installing the control panel peripherals and connecting them to the BUS, it is necessary to allow the control panel to recognize and distinguish one from another in order for them to be placed in the configuration.

This is possible firstly by assigning an address to each peripheral.

The addressing procedure changes in accordance with the type of peripheral. The types available are:

- keypads (both with keys and LCD display and also with touch-screens)
- proximity readers (both stand-alone and integrated into keypads)
- expansions (both with input/output and relay terminals)
- sounder/flasher
- home-automation modules
- thermostats
- wireless transceivers

Warning

Peripherals of different types can have the same address, whereas peripherals of the same type must always have different addresses.

Wireless transceivers must have different addresses from those of readers and expansions.

After assigning all the addresses, it is necessary for the control panel to carry out the peripheral enrolling procedures in order to include them in the system configuration that the control panel will manage.

2.4.1 Addressing of Flex2R/2T

Via keypad

`Type in Code (Installer), PROGRAMMING EnrolPeripherals Peripherals`

This section will allow you to carry out the enrolling process in two different ways:

- by manually entering the 14-digit serial code shown on the package of the device
- by pressing the 'ENROLL' button on the device

Following this operation, the device will transfer the serial code to the control panel.

Note

All the letters entered for the code must be uppercase.

The control panel will put forward the first free address for the type of peripheral identified. The installer can change this address as desired or confirm it by pressing the **OK** button.

2.4.2 Enrolling of Flex2R/2T

Inim Electronics control panels allow the enrolling of peripherals in different ways, with a choice between automatic or manual procedures, depending on installer access to the system.

Automatic, from control panel in 'service' mode

Placing the control panel in 'maintenance' mode activates automatic enrolling of peripherals on the BUS at intervals of 10 seconds.

If the installer assigns addresses to peripherals connected to the BUS, at 10 second intervals, the control panel will enroll in the configuration the peripherals it finds.

Automatic, from keypad

Alternatively, it is also possible to start an automatic enrolling process by means of the following installer menu options:

`Type in Code (Installer), PROGRAMMING Default settings, Auto enrolPerifh`

Manual, via Prime/STUDIO software application

Once the solution for the system to be designed has been opened, click on the **System Layout** button on the menu on the left. Then in the section on the right click on the **Add device on BUS** button.

A window opens where you can select the devices to be configured and add them to the configuration.

Note

For the correct usability of the layout of a system that uses home-automation modules controlled via software, ensure you have reserved the number of terminals required for the selected operating mode.

In the section on the left you can increase the number using the button corresponding to the selected device type.

To remove a device from the structure, work through the Add device procedure, but instead deselect the device you want to remove

Alternatively, you can access the programming section by clicking on the relevant button on the menu on the left, and from the list that appears click on the **Delete** button that corresponds to the line of the device to be removed.

Manual, from keypad

The enrollment of addressed peripherals is possible by enabling the menu options after reaching the installer menu section:

`Type-in Code` (Installer), `PROGRAMMING HomeAutom.module, Enable/disable`

In this section it is possible to add/remove readers from the configuration, by means of keys '■' and '□'.

3. Programming of Flex2R/2T

The programming of Flex2R/2T devices, as peripherals of the Inim Electronics control panel, can be carried out either via software or from a keypad.

3.1 Programming of home-automation modules

Via software

By clicking on the 'Home-automation modules' button on the menu on the left, the section on the right will show the list of all the configured modules.

Selecting one of the options will allow you to configure the parameters of the single peripheral by clicking on the button.

Via keypad

`Type in Code (Installer), PROGRAMMING Home-automation modules, ChoosePeripheral`

This section allows you to program the various options of the selected module.

3.1.1 Parameters of Home-automation modules

The parameters of a home-automation module differ, depending on the functions it is programmed for.

Parameter			Software section	Installer menu section
Description	This string identifies the home-automation module, customizable by the installer.		 Configured home-automation modules, selected module	`HomeAutom.module, ChoosePeripheral, "module", Description`
Generic **Roller blind** **Lights**	Option to enable one of the operating modes of the selected module.			✓
Operating type	Checkbox for the selection of the operating mode Depending on the type of operation, additional parameters are available:			✓
	Roll up time	in mS, from 1 to 200 seconds		✓
	Roll down time	in mS, from 1 to 200 seconds		✓
	Additional roll up/roll down time	in mS, from 0 to 20 seconds		✓
	Pulse time of Venetian blind rotation	in mS, from 1 to 10 seconds		✓
	Number of Venetian blind pulses	from 0 to 4		✓

Note

In the case of programming the device to control roller-shutters, it is necessary to enter, as accurately as possible, the times for up/down and Venetian blinds movement.

3.2 Programming terminals

The Flex2R/2T terminals used for connections must be programmed through the control panel in accordance with the *operating mode* selected for the home-automation module.

- **Generic home-automation module**

  'T1' and 'T2' terminals can be programmed as:

  - Control panel zones
  - Outputs, 'dimmer' and 'relay use' operating modes are unavailable. The interlock option is applicable to the 'T1' and 'T2' pair when both are programmed as outputs.
  - Input/Output, or supervised output
  - Double zone

  Terminals 'SW1' and 'SW2' can only be programmed as 'relay use' outputs. The 'buzzer' and 'dimmer' options are unavailable. The interlock option is applicable to the 'SW1' and 'SW2' pair.

- **Standard roller-shutters module**

  Terminals 'T1' and 'T2' are 'technological' zones, normally open, they belong to all partitions and they have all other programming options at default.

  Terminals 'SW1' and 'SW2' are outputs with the 'monostable' (monostable time 0, unprogrammable), 'relay use', 'home automation' and 'interlock' options enabled.

- **'Smart' roller-shutters module**

  Terminals 'T1' and 'T2' are 'technological' zones, normally open, they belong to all partitions and they have all other programming options at default.

  Terminals 'SW1' and 'SW2' are outputs with the 'monostable' (mono-stable time 0, unprogrammable), 'relay use', 'home automation' and 'interlock' options enabled.

- **Roller-shutters module with single ON/OFF button**

  Terminal 'T1' is a 'technological' zone, normally open, associated with all partitions and with all other programming options at default.

  Terminal 'T2' is fully customizable, as in the case of a home-automation module.

  Terminals 'SW1' and 'SW2' are outputs with the 'monostable' (monostable time 0, unprogrammable), 'relay use', 'home automation' and 'interlock' options enabled.

- **Roller-shutters module with one long press button**

  Terminal 'T1' is a 'technological' zone, normally open, associated with all partitions and with all other programming options at default.

  Terminal 'T2' is fully customizable, as in the case of a home-automation module.

  Terminals 'SW1' and 'SW2' are outputs with the 'monostable' (monostable time 0, unprogrammable), 'relay use', 'home automation' and 'interlock' options enabled.

- **Roller-shutters module with no buttons**

Terminals ‘T1’ and ‘T2’ are fully customizable, as in the case of the home-automation module.

Terminals ‘SW1’ and ‘SW2’ are outputs with the ‘monostable’ (monostable time 0, unprogrammable), ‘relay use’, ‘home automation’ and ‘interlock’ options enabled.

- **Venetian blind module**

  Terminals ‘T1’ and ‘T2’ are ‘technological’ zones, normally open, they belong to all partitions and they have all other programming options at default.

  Terminals ‘SW1’ and ‘SW2’ are outputs with the ‘monostable’ (monostable time 0, unprogrammable), ‘relay use’, ‘home automation’ and ‘interlock’ options enabled.

- **One light point module with switch**

  Terminal ‘T1’ is a ‘technological’ zone, normally open, associated with all partitions and with all other programming options at default.

  Terminal ‘T2’ is fully customizable, as in the case of a home-automation module.

  Terminal ‘SW1’ is an output with the ‘relay use’, ‘home automation’ options enabled.

  Terminal ‘SW2’ is a fully customizable output except for the ‘analogue’ and ‘interlock’ options (it cannot be used in pair with ‘SW1’) while the ‘relay use’ option is active and cannot be deactivated.

- **Two-point light module with switch**

  Terminals ‘T1’ and ‘T2’ are ‘technological’ zones, normally open, they belong to all partitions and they have all other programming options at default.

  Terminals ‘SW1’ and ‘SW2’ are outputs with the options ‘relay use’ and ‘home automation’ enabled.

- **Button module with one light point**

  Terminal ‘T1’ is a ‘technological’ zone, normally open, associated with all partitions and with all other programming options at default.

  Terminal ‘T2’ is fully customizable, as in the case of a home-automation module.

  Terminal ‘SW1’ is an output with the ‘relay use’, ‘home automation’ options enabled.

  Terminal ‘SW2’ is a fully customizable output except for the ‘analogue’ and ‘inter-lock’ options (it cannot be used in pair with ‘SW1’) while the ‘relay use’ option is active and cannot be deactivated.

- **Button module with two light points**

  Terminals ‘T1’ and ‘T2’ are ‘technological’ zones, normally open, associated with all partitions and with all other programming options at default.

  Terminals ‘SW1’ and ‘SW2’ are outputs with the options ‘relay use’ and ‘home automation’ enabled.

4. General information

4.1 About this manual

Manual code: DCMIINE0FLEX2R2T

Revision: 101

4.2 Manufacturer's details

Manufacturer: Inim Electronics S.r.l.
Production plant: Centobuchi, via Dei Lavoratori 10
63076 Monteprandone (AP), Italy
Tel.: +39 0735 705007
Fax: +39 0735 734912
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 only on devices marketed under the brand Inim Electronics.

4.3 Simplified EU Declaration of Conformity

Hereby, Inim Electronics S.r.l. declares that the radio equipment type Flex2R/2T is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.inim.biz.

4.4 Warranty

Inim Electronics S.r.l.. (Seller, Our, Us) warrants the original purchaser that this product shall be free from defects in materials and workmanship under normal use for a period of 24 months.

As Inim Electronics does not install this product directly, and due to the possibility that it may be used with other equipment not approved by Us;Inim Electronics does not warrant against loss of quality, degradation of performance of this product or actual damage that results from the use of products, parts or other replaceable items (such as consumables) that are neither made nor recommended by Inim Electronics. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. In no event shall Inim Electronics be liable to the purchaser or any other person for any loss or damage whether direct of indirect or consequential or incidental, including without limitation, any damages for lost profits, stolen goods, or claims by any other party caused by defective products or otherwise arising from the incorrect or otherwise improper installation or use of this product.

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover damage arising from improper maintenance or negligence, damage caused by fire, flood, wind or lightning, vandalism, fair wear and tear.

Inim Electronics S.r.l. shall, at its option, repair or replace any defective products. Improper use, that is, use for purposes other than those mentioned in this manual will void the warranty. Contact Our authorized dealer, or visit our website for further information regarding this warranty.

4.5 Limited warranty

Inim Electronics S.r.l. shall not be liable to the purchaser or any other person for damage arising from improper storage, handling or use of this product.

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.

4.6 Documents for the users

Declarations of Performance, Declarations of Conformity and Certificates concerning to Inim Electronics S.r.l. products may be downloaded free of charge from the web address www.inim.biz, getting access to Extended Access and then selecting "Certifications" or requested to the e-mail address info@inim.biz or requested by ordinary mail to the address shown in this document.

Manuals may be downloaded free of charge from the web address www.inim.biz, getting access to the reserved area, after the login, and then to the section of each product.

4.7 Disposal of the product

Informative notice regarding the disposal of electrical and electronic equipment (applicable in countries with differentiated waste collection systems)

The crossed-out bin symbol on the equipment or on its packaging indicates that the product must be disposed of correctly at the end of its working life and should never be disposed of together with general household waste. The user, therefore, must take the equipment that has reached the end of its working life to the appropriate civic amenities site designated to the differentiated collection of electrical and electronic waste. As an alternative to the autonomous-management of electrical and electronic waste, you can hand over the equipment you wish to dispose of to a dealer when purchasing new equipment of the same type. You are also entitled to convey for disposal small electronic-waste products with dimensions of less than 25cm to the premises of electronic retail outlets with sales areas of at least 400m2, free of charge and without any obligation to buy. Appropriate differentiated waste collection for the subsequent recycling of the discarded equipment, its treatment and its environmentally compatible disposal helps to avoid possible negative effects on the environment and on health and favours the re-use and/or recycling of the materials it is made of.

Evolving Security

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