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EN 50131-3  
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EN 50130-5  
CEB T031



# Alien/S

4.3 inch touch-screen keypad

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Installation and programming manual

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# 1. Description of Alien/S

The Alien/S is a colour touch-screen user interface with a 4,3 or inch display.

Access to the Alien/S keypad functions is achieved by tapping the respective buttons shown on the screen.

Graphic management provides ample room for customization, with skin and background selection and image rotation. The user can also control the screen brightness, contrast and image transparency.

The Alien/S keypad provides the following user applications:

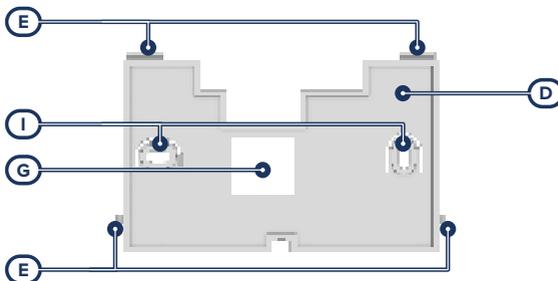
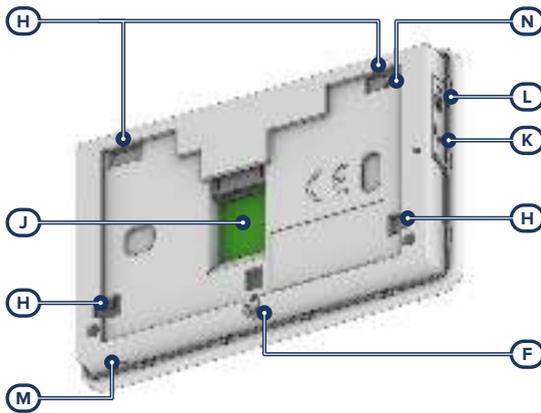
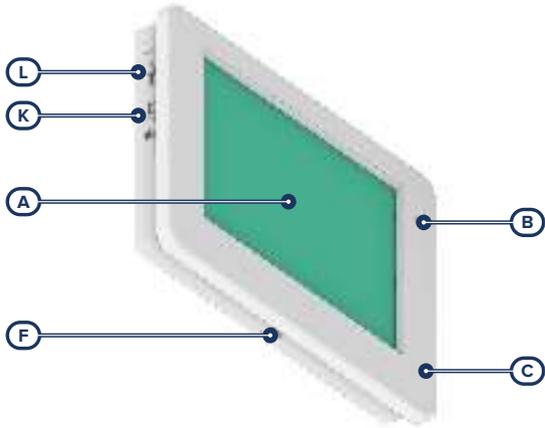
- photo-frame application, that allows viewing of slide-shows of all the images contained in the SD-card
- graphic maps for the supervision of the entire system monitored by the control panel through a graphic layout containing images, icons and buttons on the display
- the alarm clock and memo functions which generate audible signals and display pop ups are programmable directly by the user

## Main features

- 65000 colour display
- Touch-screen
- Wide angle view (IPS technology)
- Protection against removal and dislodgement tamper
- Thermometer and chrono thermostat function
- Microphone and loudspeaker for voice functions
- Built-in proximity reader
- System interface with I-BUS
- USB Interface
- SD card interface
- Photoframe function with images on SD card
- Background customization with images on SD Card
- Skin selection
- Colours available: black or white



## 1.1 Description of parts



[A]	Screen
[B]	Microphone
[C]	Proximity reader (RFID)
[D]	Mounting bracket
[E]	Back-locking grips
[F]	Anchor screws
[G]	Cable entry
[H]	Back-locking grip locations
[I]	Flush-mount screw locations for '503' box
[J]	Cable connector
[K]	Mini USB connector
[L]	Slot for micro-SD card
[M]	Low profile heat detector
[N]	Calibration button for forced 'ENROLL'

## 1.2 Alien/S – connection cables

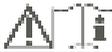


colour	Terminal board	description
Red	+	Cable/Terminal '+' of the I-BUS
Yellow	D	Cable/Terminal 'D' for the I-BUS connection
Green	S	Cable/Terminal 'S' for the I-BUS connection
Black	-	Cable/Terminal '-' of the I-BUS
Grey	B	Do not connect
Blue	A	Do not connect
White	REOL	Do not connect

## 1.3 Technical specifications of Alien/S

Operating voltage	from 9 to 15 V $\overline{---}$
Typical current draw	130 mA
Display dimensions	4.3"
Number of display colours	65000
Display resolution	480 x 272

SD card capacity	Max. 32 GByte
RFID reader	
Band frequency	119/128.6 kHz
Field strength H (max.)	66dBµA/m at 10 m
Mounting	Bracket for mounting to standard '503' outlet boxes
Operating environmental conditions	
Temperature	from -10 to +40 °C
Relative humidity	≤ 75% without condensation
Security grade	3
Environmental class	II
Dimensions	
supplied with bracket	136 x 85 x 17 cm
with optional deep-bracket	136 x 85 x 24 cm
Weight	160 g



(EN IEC 62368-1)

Terminal type	+ D S -	ES1, PS2
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## 1.4 The Alien/S keypad screen



[A]	Date and Time of the Inim Electronics control panel. If the control panel is in 'maintenance' mode, this field will show the address of the Alien/S and its integrated reader.
[B]	Keypad LED icons ( <i>Signalling on keypad LEDs</i> ).
[C]	Temperature read by the thermometer on the Alien/S.
[D]	Icon which indicates the presence of an SD card in the card slot. After entering a valid user code, the <b>Logout</b> button appears, which will allow you to exit the open session.

[E]	Section for the active functions, with buttons for access to the Alien/S, to its applications and to the Inim Electronics system. The home page shows the function buttons indicated in the <i>Alien menu</i> .
[F]	Function buttons of the <i>Alien menu</i> .
[G]	String showing the arming status of the control panel, in accordance with the active scenario or status of the partitions. If a partition to which the keypad belongs changes its status with respect to what is programmed for the active scenario, or in the event that the control panel enters maintenance mode, this string will show the characters relating to the status of the partitions: <ul style="list-style-type: none"> <li>• <b>D</b>, partition disarmed</li> <li>• <b>A</b>, partition armed in Away mode</li> <li>• <b>S</b>, partition armed in Stay mode</li> <li>• <b>I</b>, partition armed in Instant mode</li> <li>• <b>-</b>, partition does not belong to the keypad</li> </ul>
[H]	Tapping this section on the screen opens a window (for 3 seconds) containing a list of the active scenarios. If required by programming, it may request entry of a valid code.
[I]	System information icons ( <i>Signalling on status icons</i> )
[J]	If the user is working inside a section, this field will show the following buttons which may cover the information icons: <ul style="list-style-type: none"> <li>• <b>Back</b> This button allows the user to step back to the previously active function.</li> <li>• <b>Home</b> Button which allows the user to go directly to the home page.</li> </ul>

Further visualizations shown on the Alien/S screen depend on the section/page being accessed by means of the buttons. The layout of these pages depends on the functions and buttons available and how they are utilized by the user (*Operations via Alien keypad*).

### Pop-up

There are also visualizations that the control panel activates automatically and appear as pop-ups when the following events occur:



- **Zone alarm or tamper**

If any of the keypad partitions has alarm or tamper event memory, a pop-up window will appear showing:

- an '**ALARM**' warning and the description of the zone which generated the alarm or tamper signal
- the **Disarm** button, to disarm all the armed partitions that the code and keypad in use have in common
- the **Stop alarms** button, to deactivate the outputs activated by the alarm signal



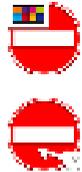
- **Clear call queue** button, to cancel the calls in the outgoing call queue
- the **Home** button to access the home page directly



- Activation of the **entry time**
- Activation of the **exit time**

If an entry or exit time is activated, a pop-up will appear showing:

- a string indicating the remaining seconds of the running entry/exit time
- the **Disarm** button, to disarm all the armed partitions the code and keypad in use have in common
- the **Scenarios** button, to access the scenarios available for activation
- the **Home** button, to access the home page directly
- **Keypad locked**, this icon appears when the user taps the display and the keypad is locked due to 5 consecutive invalid code entries.
- **Reader locked**, this icon appears when the user holds a key in the vicinity of a reader which has been locked due to 5 consecutive attempts to use an invalid key.



## Cleaning the display

Touching the 'Settings' option on the home page for at least 7 seconds disables the sensitivity of the touch screen for 20 seconds. During this interval, the 'CLEAN SCREEN' message is shown to indicate that it is possible to clean the screen.

## Rebooting

Touching any part of the screen for 50 seconds will reboot the keypad.

## 1.5 Status icons on screen

The icons that appear on the second line, on the right side of the LCD screen or on the top and bottom bars of the Alien/S display, provide system information, therefore, their appearance or status (fixed or flashing) depends on the status they are reporting:

Icon		Signalling
Telephone line	 Solid	Telephone line busy
	 blinking	Telephone line down

Icon		Signalling	
Peripheral Loss		Solid	At least one peripheral device is not responding
		blinking	All the peripherals in the system configuration are responding properly, however, loss of a peripheral has been detected and cleared (Peripheral Loss memory).
Answerphone		Solid	Answerphone function enabled
Key		blinking	False key
Tamper disabled		Solid	The tamper protection on the Alien/S keypad is disabled
Peripheral tamper		Solid	At least one peripheral (keypad, reader, expansion) is in tamper status (enclosure open or dislodged)
		blinking	All peripherals are properly positioned and all enclosure covers are closed, however, tamper signalling has occurred on one or more of them (tamper memory).
Control panel Tamper		Solid	The Control panel is in tamper status (enclosure open or device dislodged).
		blinking	The Control panel is properly positioned and the enclosure is closed, however, open-panel signalling has occurred (panel tamper memory).
Call on GSM		Solid	A phone call is in progress on the GSM communicator
Sending SMS		Solid	An SMS text message is being sent through the GSM communicator
LAN		Solid	A SIA-IP event report is being sent through the LAN
		blinking	The LAN board cannot be found
SIA-IP over GSM		Solid	A SIA-IP event report is being sent through the GSM communicator

## 1.6 Visual signals on the keypad LEDs

The following table describes the signals on the LEDs of Inim Electronics keypads, or the icons which represent them on the Alien/S keypad screen:

Activation	 Red LED	 Yellow LED	 Blue LED	 Green LED
OFF Icon not present	All the keypad partitions are disarmed	No faults present	Open zones on the keypad partitions	Primary power failure (230V a.c.)
ON Icon on solid	At least one of the keypad partitions is armed	At least one fault is present	All the zones on the keypad partitions are in stand-by status: Ready to arm	Primary power (230V a.c.) is present
Slow blinking (ON: 0.5sec OFF 0.5sec)	All the keypad partitions are disarmed Memory of alarm/tamper on at least one of the keypad partitions or	No faults present At least one of the zones belonging to the	All the zones belonging to the keypad partitions are in stand-by status	



Activation	 Red LED	 Yellow LED	 Blue LED	 Green LED
	memory of a system alarm is present.	keypad partitions is either disabled (inhibited) or is in Test status PSTN or GSM communicator is disabled	An unplayed voice message is present in the voicebox	
<b>Fast blinking (ON: 0.15sec OFF 0.15sec)</b>	At least one of the keypad partitions is armed Memory of alarm/tamper on at least one of the keypad partitions or memory of a system alarm is present.	At least one fault is active and at least one zone belonging to the keypad partitions is either disabled (inhibited) or is in Test status.	Open zones on the keypad partitions An unplayed voice message is present in the voicebox	

Following is the list of events which cause the Red System Alarm LED  to blink:

- Open panel tamper
- Dislodged panel tamper
- Expansion tamper
- Keypad Tamper
- Reader Tamper
- Expansion Loss
- Keypad Loss
- Reader Loss
- False key
- False key

### Hide status

If 'Hide status' option is enabled, 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 in question for 30 seconds. Additionally:

- If the partitions are ARMED, the current status of the system will be hidden from non-authorized persons.
  - Red keypad LED Off
  - Yellow keypad LED Off
  - Green keypad LED On solid
  - Status icons not present
  - Alarm and Tamper memory hidden
  - If the same event occurs more than five times when the partitions are armed, the event in question will not be signaled further by the control panel. This is due to the fact that each event has a counter which, during armed status, increases by 1 each time it occurs; only when all the partitions disarm will the counter reset.
- When partitions are DISARMED:
  - the LEDs function normally
  - status icons are present
  - alarm and tamper memories are visible

## 1.7 Emergency functions

The control panel provides 3 special functions which can be activated from the keypad:

- Fire Emergency
- Ambulance Emergency
- Police Emergency

Activation of these keys will generate the associated events and actions (e.g. activation of outputs and calls).

To activate an emergency request, press and hold for 3 seconds the required key combination and wait for the confirmation beep, as follows:

Icon/key	Emergency
	Fire
	Ambulance
	Police

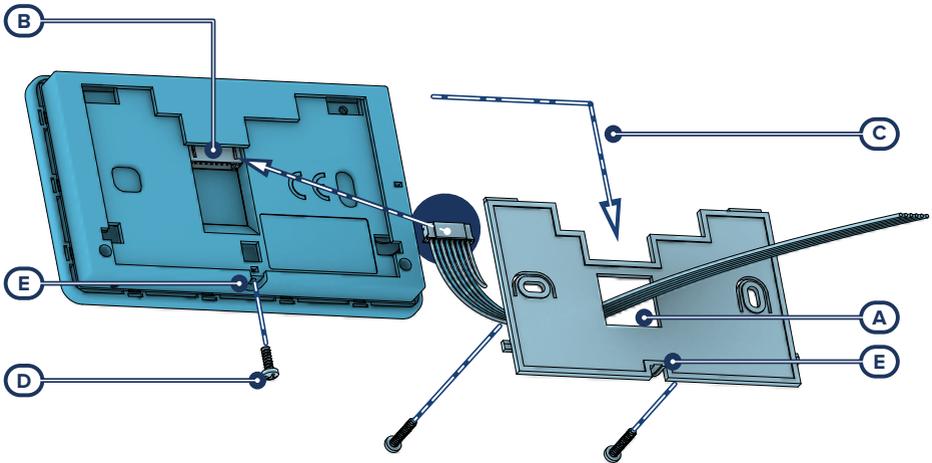
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### Note

*If any two function keys are pressed at the same time, the shortcuts relating to the icons associated with the keys will not be activated.*

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## 2. Installation of the Alien/S keypad



1. Connecting the device to the system
2. Pull the connection wires through the wire entry [A].
3. Connect the wires to the connector on the back of the keypad [B].
4. Using the appropriate holes, mount the bracket (standard, supplied, or deep, optional) to the wall or to the 503 box.
5. Attach the keypad to the bracket by means of the back-locking grips as shown in figure [C].
6. Fasten the screw [D] (included) into the screw location [E], to secure the keypad properly to the bracket.

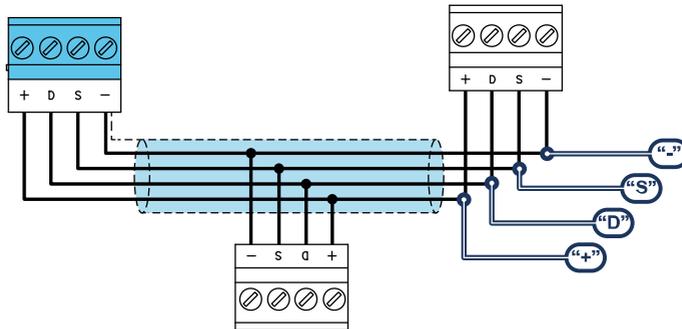
### 2.1 Touch-screen calibration

If the touch screen of the Alien/S 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 appropriate button (*Description of parts, [N]*) which can be reached through the relative hole.

Once the calibration process starts, simply follow the instructions provided by the keypad.

## 2.2 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 absorption 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 (mm <sup>2</sup> )	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 (mm <sup>2</sup> )	I-BUS terminal
6 wire cable + shield	2	0.5	+ -
	2	0.22	<b>D S</b>
	2	0.22	available
6 wire cable + shield	2	0.75	+ -
	2	0.22	<b>D S</b>
	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)
38.4kpbs	500m
125kpbs	350m
250kpbs	200m

- Number and distribution of isolators.

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

## 2.3 Addressing of Alien/S

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
- power-supply stations

### 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.

## 2.3.1 Addressing via keypad

### Via Alien/S

To assign addresses to Alien/S, work through the following steps:

1. Put the control panel in 'Maintenance' mode.
2. From the Alien/S keypad, access the 'Settings' section and then access the 'Alien/S' section.  
This section provides a list of the keypad parameters.
3. Set the parameters:
  - 'KEYPAD N.' - keypad address
  - 'PROXY ADDRESS' - built-in reader address
4. This parameter can be changed by means of keys '+' and '-'.
5. Tap **SAVE** to set the addresses and exit.



## 2.3.2 Fast addressing of keypads and readers

If the button relating to open-tamper on the control panel cover is pressed within 4 seconds of inserting the 'service' jumper, the function for fast addressing of the keypads and readers will activate.

All the keypads and readers connected to the I-BUS will be placed in address programming mode.

At this point, the installer can either change or confirm the assigned addresses.

## 2.3.3 Enrolling of Alien/S

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 enrolPeriph

### 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.

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, via SmartLeague software application



Once the solution of the system to be designed [A] has been opened, in the right 'Design' tab [B], it is possible to select an icon of the type of peripheral to be configured and drag it to the relevant part of the tree structure on the left [C].

Alternatively, you can double-click on the device icon to add it to the configuration.

In the tree structure on the left, the number corresponding to the selected device type increases.

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

### Manual, from keypad

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

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

## 3. Programming of Alien/S

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

### 3.1 Keypad programming

#### Via software

Click on the **Keypads** button on the menu on the left, to access two programming sections on the right:



- 'Configured keypads', with a list of all the configured keypads. By selecting one of these items it is possible to set the parameters of the single keypad by clicking on the  button.
- 'Keypad parameters', section with parameters common to all the keypads.

#### Via keypad

Type-in Code (Installer), PROGRAMMING Keypads, ChoosePeripheral

This section provides a list of the available keypads.



The following symbols may appear alongside the keypad description:

- '<', indicating the keypad in use
- '\*', indicating a keypad configured on the I-BUS

From this list it is possible to select a keypad for the programming of parameters.

#### 3.1.1 Keypad parameters

##### Parameters common to all keypads

Parameter	Software section	Installer menu section
<b>Wrong PIN keypad lockout</b> If a wrong code is typed-in at a keypad more than 5 times in succession, the keypad will lock for 10 minutes. The count restarts from 10 minutes in the case of control panel reset or entry into programming.	 Keypad parameters	Parameters Keypad lockout
<b>View open zones</b> The keypad will show the descriptions of any zones not in standby status when the partitions disarm. Any auto-bypassable zones will be shown in negative.		View open zones
<b>Show scenario</b> The second line on the keypad display, on the left side, will show the description of the active scenario.		Show scenario
<b>Message repetitions on voice keypad</b> This refers to the number of times event messages are played on the keypad (only for keypads with speakers). The playback phase can be stopped by pressing any button.		Parameters, Other Parameters, LockPadMessTimes
<b>Press key to end playback</b> If this option is enabled, message playback can be interrupted solely by pressing any button.		LockPadMessTimes, "255"



## Parameters for single keypads

	Parameter	Software section	Installer menu section
<b>Description</b>	Description of the keypad, customizable by the installer.	 Configured keypads, selected keypad	Keypads, ChoosePeripheral, "keypad"
<b>Keypad type</b>	Checkbox for the selection of the keypad type: <ul style="list-style-type: none"> <li>Keypad with display and keys</li> <li>Touch-screen keypad</li> <li>Wireless keypad</li> </ul>		-
<b>Partitions</b>	Section for the selection of the partitions the keypad can operate on.	 Configured keypads, selected keypad, General	Keypads, ChoosePeripheral, "keypad"
<b>Disable temperature visualization</b>	If this option is enabled, the room temperature will not be flashed on the display. This option is valid only for keypads equipped with thermometers.	 Configured keypads, selected keypad, General, Details, Other parameters	Keypads, ChoosePeripheral, "keypad", Options, Temperature off
<b>Disable audible entry-time signal</b>	This option enables/disables the buzzer during partition entry-time		NoEntryTimeSignal
<b>Disable audible exit-time signal</b>	This option enables/disables the buzzer during partition exit-time		NoExitTimeSignal
<b>Audible signal on terminal T1 output</b>	This option enables/disables the buzzer when the keypad terminal T1 is activated as an output.		Beep on output
<b>Disable chime</b>	This option enables/disables the buzzer that signals the violation of the bell zone relative to the keypad.		Disable chime
<b>LED OFF in stand-by</b>	If enabled, in the event of at least 40 seconds inactivity on the keypad, the respective LEDs will switch off.		LED OFF in stand-by
<b>Bypass wireless supervision</b>	If enabled, this option inhibits the monitoring function the control panel must perform on the wireless keypad.		NO Superv. WLS
<b>Bypass tamper</b>	If enabled, this option inhibits signalling on the control panel of wireless keypad tamper.		Disable tamp. WLS
<b>Enablement of home-automation outputs</b>	Section where it is possible to indicate which of the available outputs can be used for 'home automation' purposes, that is, accessible without code entry).	 Configured keypads, selected keypad, General, Details	-
<b>Thermostats managed by keypad</b>	This section lists all the potential thermal probes of the system, both isolated ones and those integrated in the keypads, with those in configuration highlighted. By means of the relative check boxes, it is possible to select which of the probes is reachable from the keypad being programmed.		Keypads, ChoosePeripheral, "keypad", TemperatureSens.
<b>Thermostat on keypad</b>	This key directly accesses the programming section of the "Thermostat ON" event	 Configured keypads, selected keypad	Events, Thermostat ON
<b>Valid code at keypad</b>	This key directly accesses the programming section of the "Valid code at keypad" event		Events, Valid Code
<b>Temperature adjustment</b>	This parameter allows entry of the effective value of the room temperature detected by an external thermometer. This value replaces the one detected by the keypad and allows the correction of the temperature sensor on the keypad concerned (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).	-	Other Parameters, Temp. adjustment

### Shortcuts on single keypad

Parameter		Software section	Installer menu section
<b>Shortcuts</b>	For each key, from F1 to F12, it is possible to program the type of shortcut selectable from among all the available shortcuts. When programming an Alien keypad, positions F1 - F12 refer to the positions in the list available in the 'Scenarios' section of the Alien keypad you are working on.	 Configured keypads, selected keypad, General, Details, Shortcut	Keypads, ChoosePeripheral, "keypad", F1/4KeyShortcuts
	It is necessary to specify a further parameter for each shortcut: <ul style="list-style-type: none"> <li>• <b>Execute Arm/Disarm</b>, the parameter is one of the scenarios</li> <li>• <b>Activate output</b>, the parameter is an output</li> <li>• <b>Deactivate output</b>, the parameter is an output</li> <li>• <b>Activate output scenario</b>, the parameter is one of the scenarios</li> <li>• <b>Panic</b>, this parameter is one of the panic events</li> </ul>		F1/4KeyShortcuts, "Fx", Type
<b>Shortcut parameter</b>	Requires code		F1/4KeyShortcuts, "Fx", Options, Requires code
	Code entry in the event of security risk	If this option is enabled and the selected shortcut involves a scenario that disarms a partition, or switches a partition from Away mode to Stay mode, the security of the system will obviously be at risk, therefore, the system will request entry of a valid code.	SecurityRiskCode
	Requires confirmation	If this option is enabled when the user selects the shortcut via the relative function key, the system will request confirmation before actually activating the shortcut, confirmation is achieved by simply pressing the key. This option helps the user avoid accidental activations.  This option is not available on Alien keypads.	Confirm
<b>Disable exit time signal</b>	If this option is enabled and the application of an arming scenario is programmed for the relative shortcut, the keypad will not sound the exit time when the specific scenario is applied. This option is disabled by default.		NoExitTimeSignal
<b>Disable entry time signal</b>	If this option is enabled and the application of an arming scenario is programmed for the relative shortcut, the keypad will not sound the entry time when the specific scenario is applied. This option is disabled by default.		NoEntryTimeSignal

The "Listen-in" and "Arming status" shortcuts will have no effect if requested at a keypad. When programming an Alien keypad, the only type of shortcut that functions is 'Arm/disarm'.

## 3.2 Graphic interface of the Alien keypads

Exclusively via software it is possible to program the graphic interface of the Alien keypads and the graphic maps that can be displayed.

Once the keypad has been selected, it is necessary to select 'Touch-screen keypad' as its type. Together with the 'General' section common to all types of keypads, the following sections are shown:



- 'Graphics', for the graphic interface setup (backgrounds, buttons, icons)
- 'Maps', to configure the graphic maps accessible in the 'Maps' section in the 'APPS' section



In order to configure the modified parameters on the keypad, it is necessary to have a link between the PC to the USB port of the keypad.

### Touch-screen keypad parameters

Parameter		Software section
<b>Communication port</b>	Selection of the connection port with the touch-screen from among those found by the PC.	 Configured keypads, selected keypad, Alien graphics
<b>Refresh</b>	Button for the connection upgrades found by the PC.	
<b>Model</b>	Selection of the touch-screen keypad model.	
<b>Available Skins</b>	Selection of one of the themes available for the touch-screen graphics.	
<b>Background</b>	Button to display only the background of the graphics in the image below.	
<b>All</b>	Button to display the graphics complete with buttons in the image below.	
<b>Default</b>	Button to visualize the default graphic for the selected theme.	
<b>Clean</b>	Button to cancel the selected graphic.	
<b>Write skin</b>	Button to set the selected skin on the keypad.	
<b>Write icons</b>	Button to set the icons selected for the buttons on the keypad.	

The image in the lower part of the 'Graphics' section allows the visualization of the graphic selected for the keypad.

It is possible to load an image from the PC by double-clicking on the background or button icons.

The requirements for the images are:

- the background file must be a JPG file with a maximum size of 120 kbytes, 480x272 pixels
- each of the 8 main buttons must be a JPG file with a maximum size of 12 kbytes, 109x88 pixels

## 3.3 Programming of proximity readers

### Via software

Click-on the 'Proximity readers' button on the menu on the left, to access two programming sections on the right:



- 'Configured readers', with the list of all the configured readers, whether they are standalone peripherals or integrated into keypads. Selecting one of the options will allow you to configure the parameters of the single reader by clicking on the  button.
- 'Reader parameters', section containing the parameters common to all the readers.

### Via keypad

Type-in Code (Installer), PROGRAMMING Readers, ChoosePeripheral

In this section, it is possible to program the various parameters of each reader after selecting it, regardless of whether it is a standalone peripheral or integrated into a keypad.

### 3.3.1 Reader parameters

#### Parameters common to all readers

Parameter	Software section	Installer menu section
<b>Programming the proximity reader address</b>	Reader parameters	Readers, Prog. address
<b>Address LED codes</b>		/

### Parameters of single reader

Parameter		Software section	Installer menu section
<b>Description</b>	This is the name used to identify the reader, customizable by the installer.	 Configured readers, selected reader	Readers, ChoosePeripheral, "reader"
<b>Partitions</b>	Section for the selection of the partitions the reader can operate on.		
<b>Type</b>	<p>It is possible to assign a shortcut type, selectable from those available, to each of the LEDs (refer to Appendix C, Shortcuts by default). The type of activatable shortcut is to be chosen in accordance with the reader model, whether standalone or integrated, as the activation of some shortcuts depends on the presence of a keypad with a display.</p> <p>It is necessary to specify a further parameter for each shortcut:</p> <ul style="list-style-type: none"> <li>Execute Arm/Disarm, the parameter is one of the scenarios</li> <li>Activate output, the parameter is an output</li> <li>Deactivate output, the parameter is an output</li> <li>Activate output scenario, the parameter is one of the scenarios</li> <li>Panic, the parameter will be one of the panic events</li> <li>Access shortcuts to menus and data viewing on keypad displays, the parameter is the reference access code</li> </ul>	 Configured readers, selected reader, Shortcut	Readers, ChoosePeripheral, "reader", Shortcut, Type
<b>Parameter</b>			
<b>Valid key at reader</b>	Button to access directly the programming section of the 'Valid key at reader' event	 Configured readers, selected reader	Events, ValidKeyAtReader

## 3.4 Programming thermostats

### Via software

Click on the **Thermostats** button on the menu on the left, the section on the right will provide the list of all the configured thermostats.



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

### Via keypad

From the installer menu, the parameters relating to the thermostats can be reached in accordance with the type of associated device.

- In the case of stand-alone module connected to the BUS or connected via wireless connection:  
Type in Code (Installer), PROGRAMMING TemperatureSens., ChoosePeripheral
- In the case of a thermal probe integrated in a keypad:  
Type in code (Installer), PROGRAMMING Keypads, ChoosePeripheral
- In the case of a thermal probe connected to an expansion:  
Type in Code (Installer), PROGRAMMING Terminals, "thermal probe terminal"
- If the terminal is associated with a thermostat, this can be reached via:  
Type in Code (Installer), PROGRAMMING TemperatureSens., ChoosePeripheral



### 3.4.1 Chronothermostats parameters

Parameter		Software section	Installer menu section		
<b>Description</b>	String that describes the temperature sensor, customizable by the installer	 Configured thermostats, selected thermostat	TemperatureProbe, ChoosePeripheral, "sensor", Description		
<b>Activatable outputs</b>	<p>In this section you can select the outputs that can be activated by the thermostat function relating to the probe being programmed.</p> <p>There are 4 outputs that can be activated when the thermostat is in "summer" mode and 4 when it is in "winter" mode.</p>		/		
<b>Temperature hysteresis</b>	<table border="1"> <tr> <td>Enter the value of the hysteresis of the sensor.</td> <td>The entered value must be expressed in °C decimals (from a minimum of 0 to a maximum of 4).</td> </tr> </table>		Enter the value of the hysteresis of the sensor.	The entered value must be expressed in °C decimals (from a minimum of 0 to a maximum of 4).	Hysteresis
Enter the value of the hysteresis of the sensor.	The entered value must be expressed in °C decimals (from a minimum of 0 to a maximum of 4).				
<b>Programming the chronothermostat</b>	<p>Section relative to the programming of chronothermostat.</p> <p>You can program the thermostat and also adjust its temperature setting and operating times.</p> <p>The adjustment of the temperature (manual or operating time mode) is allowed by indicators on level bars.</p> <p>The <b>Read</b> button allows you to read the thermostat schedule and ambient temperature detected by the provided thermometer. The <b>Write</b> button allows you to set the schedule.</p>				

## 4. User operations

The Inim Electronics system can be accessed and operated in the following ways:

- via keypad with a display (LCD) (Joy, Aria, nCode/G, Concept/G)  
In which case the user can operate the system in two ways:
  - by means of shortcuts
  - by means of access codes via the user menu
- Via the Alien keypad  
in this case, users are provided with buttons, displayed on the screen, that with a single tap activate functions and applications.
- via proximity reader (nBy/S, nBy/X, built into the keypad)  
in this case it is necessary to use a valid key and there is only one way of accessing the system.
- over the phone  
during a call from/to the control panel or via an SMS message and valid code entry (PIN).
- via remote-control device  
by pressing the keys
- via Web  
by means of the integrated web-server on the [[[Undefined variable Product/Dispositivi.Scheda LAN]]] board (if installed) through any browser
- via Application  
in this case, users are provided with buttons on the screen of their smart phones which activate functions and applications from remote locations.
- via Inim Cloud  
by means of a browser, the user can access a customized web interface which provides all the registered control panels.

### 4.1 Alien/S function keys

The Alien/S keypad user-interface is shown as a menu of function keys. The keys are visualized as icons which activate the respective functions when tapped on the touch screen.

The following table provides a description of the function keys displayed on the home page. The home page coincides with the page that is displayed when the user has not activated any function or application, or has simply not touched the display for at least 45 seconds.

Some of these keys activate their assigned functions after entry of a user code that opens a session, which is closed by tapping 'Logout' button on the top right of the Home page or after 45 seconds inactivity on the keypad.



Icon/key	Function	Code required
SCENARIOS 	Accesses the section containing the list of programmed scenarios which can be activated.	No code required for access. Depending on programming, the activation of scenarios may require code entry.
COMMANDS 	Accesses a section containing the list of outputs which can be activated. The outputs are divided in two sections <ul style="list-style-type: none"> <li>'Home automation', outputs for the management of the home</li> <li>'Intrusion' outputs programmed through the anti-intrusion system</li> </ul>	'Home automation', no code required 'Intrusion', code required.
INTRUSION 	Accesses a section where you can view and change the status of parts of the anti-intrusion system: <ul style="list-style-type: none"> <li>'Partitions', section where the user can view and change the status of the partitions.</li> <li>'Zones', section where the user can view and change the status of the zones.</li> <li>'Events Log', section where the user can view the events log.</li> </ul>	User code required.
MENU 	Accesses two sections: <ul style="list-style-type: none"> <li>'Actions', which lists the control panel commands in the event of alarm, tamper or overtime requests.</li> <li>'Activations', where it is possible to view and enable the activations described in the 'Activations' paragraph.</li> </ul>	User code required.
SETTINGS 	Accesses the sections for the settings of the keypad and the control panel: <ul style="list-style-type: none"> <li>'Alien', provides information regarding the settings of the keypad the user is working on It shows the model, firmware revision and the address of the keypad and built-in reader. Furthermore, it allows the user to modify the viewing mode of the display by changing the available screen options by means of the '+' and '-' keys.</li> <li>'Date/Time', 'Change PIN', 'Tel.Numbers', these sections allow the user to change the date and time on the control panel clock, the user PINs and the contact phone numbers saved to the memory.</li> <li>'Installer', this section allows access to the installer menu after entry of a valid installer PIN, thus putting the control panel in programming mode. 'Alphanumeric keypad', this section allows you to work on the Alien keypad as if it were an LCD keypad. Tap the 'Alien' button to step back to the standard mode.</li> </ul>	User code required. Installer code required for the 'Installer'.
SYSTEM 	Accesses a section where it is possible to view the system parts: <ul style="list-style-type: none"> <li>List of ongoing faults</li> <li>Power-supply voltage of the control panel</li> <li>Information relating the GSM communications board</li> </ul>	User code required.
APPS 	Accesses the Alien keypad applications: <ul style="list-style-type: none"> <li>'Photo frame', application that starts a slideshow of the images contained in the inserted SD-card.</li> <li>'Voice functions', accesses a section where it is possible to activate the control panel voice board functions or the 'Intercom' function.</li> <li>'Maps', for access to the system by means of the graphic maps.</li> </ul>	No code requested

Icon/key	Function	Code required
	<ul style="list-style-type: none"> <li>'Alarm clock'</li> <li>'Memo', application for the programming and activation of audible signalling and popups on the keypad.</li> </ul>	
CLIMATE	 Accesses the thermostat functions section	No code requested

## 4.2 Activations

To activate (and deactivate) the elements of the Inim Electronics system via the Alien/S keypad, access the 'Menu' section, enter the user code and then access the 'Activations' section.



Here are listed the sections relating to the elements you can activate by pressing the **ACTIVATE** button.

Each section presents its own elements arranged in list form. Each element is associated with two buttons - **ON** for activation and **OFF** for inhibition, and an icon which changes in accordance with the status:

- , activated/enabled
- , deactivated/disabled

## 4.3 Change code PIN

To change user code PINs via the Alien/S keypad, access the 'Settings' section, enter a valid user code, then go to the 'Date/Time – Change PIN – Change tel. num.' section, then to the 'Change PIN' section.



Select the code from those available on the list.

The next step is to change the code by means of the buttons on the screen and confirm changes by pressing the **OK** button.

## 4.4 Voicebox and intercom functions

When accessing voice functions via the Alien touch screen, first access the 'Apps' section and then the 'Voice functions' section.



Following is a list of the sections relating to each function which can be activated by pressing the respective **ON** button:

- Record voicemail message
- Playback voicemail message
- Delete message in the voice memo box
- Voice communication with another keypad.

The sections accessed through the touch screen reproduce the same voice functions as those previously described for keypads with keys.



## 4.5 Managing alarms

The typical operations the user must perform in the event of alarms and/or tamper conditions are:

- Stop the ongoing alarms by deactivating the outputs related to the system alarm and tamper events.
- Cancel the entire call queue and stop ongoing calls (if any).
- Delete the alarm and tamper memories.

To perform these operations, it is necessary to access the 'Menu' section, enter the user code and then access the 'Actions' section.



This section contains a list of control panel commands which can be activated by means of the **ACTIVATE** button.

## 4.6 Outputs management

The Alien/S keypad allows you to activate/deactivate manually the outputs the code is enabled to work on.

Access the 'Commands' section, where the following sections are available:



- 'Home automation', for access to the outputs of the home automation system, code entry not required.
- 'Intrusion', for access to the outputs of the anti-intrusion system, code entry required.

The available outputs are listed in both sections.

The activatable outputs are associated with two buttons, **ON** for activation and **OFF** for deactivation, and an icon which changes accordingly:

- , output activated
- , output deactivated

The high-power relay outputs and dimmer outputs have a scroll bar for the visualization of their supplied power/current, together with the numerical value and power factor (cosφ). These values can be adjusted using the + and - buttons.

## 4.7 Keypad settings

Access the 'Settings' section, type-in a valid user code and then access the 'Alien/S' section.



This section will allow you to view the firmware version of the keypad in use on the connected control panel and change the parameter settings of the Alien/S keypad you are working on.

The settings will be saved even in the event of control-panel shutdown.

- **Transparency** - for the adjustment of the transparency effect
- **Brightness** - for the adjustment of screen brightness when touched (duration 45 seconds)
- **Stand-by brightness** - for the adjustment of screen brightness when the keypad is in stand-by status
- **Volume buzzer** - for buzzer loudness adjustment
- **Volume voice** - for speaker loudness adjustment
- **Skin** - for the selection of one of the skins available for the Alien keypad screen
- **Delay photof.** - waiting time before the automatic startup of the photoframe application during standby status

- **Photo int.** - interval between the display of photos used by the photoframe application
- **Language** - for the selection of the language used by the Alien keypad
- **Temperature adjustment** - for the adjustment of the temperature shown on the display
- **View partitions** - for the visualization of the operating status of the partitions on the bottom bar of the display
- **Exit time** - enables/disables the audible signal during exit time
- **Entry time** - enables/disables the audible signal during entry time
- **Bell** - enables/disables the audible signal for the bell function
- **Temperature** - enables/disables the visualization of the temperature on the display
- **Maps** - enables/disables the automatic start up of the graphic maps application when the keypad is in stand-by
- **Show scenario with code** - enables/disables the request for user-code entry when the user taps the lower bar on the home page to view the active scenarios.
- **Emergency lights** - if enabled, in the event of mains power failure the keypad will increase brightness to its maximum value and will hold this status until the mains power restores to normal

If the control panel is in maintenance status, a list of the following parameters will be shown:

- **Keypad address**
- **Keypad address** - this is the address of the Alien keypad and its integrated reader
- **Tamper** - enable/disable detection of tamper on the device.

If tamper is disabled, the upper tool bar on the home page will show the icon opposite.



Select the parameter using the up/down scroll keys and change it by means of the + and - buttons. To confirm changes and exit the section press the **SAVE** button.

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### Note

*English is the default language of the Alien/S keypad.*

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## 4.8 Arming commands and scenarios

The Alien keypad allow users to activate the programmed scenarios and also set up the arming mode of the partitions they control (have access to):

In the case of arming requests in conditions of reduced security (partitions not ready or faults present) the keypad will show the list of causes of reduced security.

### Scenarios

Access 'Scenarios' section. This section provides a list of the scenarios which can be activated by means of the **ACTIVATE** button.



Tapping the bottom bar on the home page will open (for 3 seconds) a window containing a list of the active scenarios. If required by programming, the system may request entry of a valid user code ('Show scenario with code', *Keypad settings*).

### Partitions

Access the 'Intrusion' section, type-in the user code and then access the 'Partitions' section.



This section displays the partitions separately. The user can scroll and select a partition by means of the right/left scroll buttons and then select the arming mode by means of up/down buttons.

- **'D'**, to disarm.
- **'A'**, to arm in Away mode (entire system armed).



- **'S'**, to arm in Stay mode (system partially armed).
- **'I'**, to arm in Instant mode (no delays).
- **'N'**, not to change the operating status.

To apply the selected arming mode , press the **OK** button.

## 4.9 Change date and time

The Alien keypad has a section that allows you to set the date and time in accordance with the selected format.

Access the 'Settings' section, enter a valid user code, then go to the 'Date/Time – Change PIN – Change tel. num.' section, then to the 'Date/Time' section.

Changes can be made using the left/right and up/down scroll buttons and confirmed by the **OK** button.



## 4.10 Change telephone numbers

To edit phone numbers via the Alien/S keypad, access the 'Settings' section, enter a valid user code, then go to the 'Date/Time – Change PIN – Change tel. num.' section, then to the 'Change tel. num.' section.

In this section it is necessary first to select the required telephone number from those available on the list.

The next step is to edit the number using the screen buttons and confirm changes by pressing the **OK** button.



## 4.11 Photo frame

'Photo frame' is an Alien/S keypad application that plays a slideshow of images.

The image files must be stored in the 'images' folder in the root directory of Micro SD card which is inserted in the appropriate slot on the Alien/S keypad. Visualization image file format: JPG, GIF and BMP.

For optimum visualization, it is advisable to keep the size of each file below 500 kbytes.

There are two ways of starting Photo frame:

- Via Alien/S keypad, by accessing the 'Apps' section, and pressing the 'Photo frame' button.
- Automatically, if the value set for the 'Delay photo' parameter is different from 'Disabled'. To change this setting and other Alien/S keypad and application settings, access the 'Settings' section, type-in a valid user code then access the 'Alien/S' section (refer to *Keypad settings*).



The slideshow can be stopped by simply tapping the screen, which then returns to the home page.

## 4.12 Overtime request

Overtime requests via Alien/S keypads can be activated through the 'Menu' section after entering a valid user code and accessing the 'Actions' section.

This section contains a list of control panel commands, amongst which the 'Overtime request' which can be activated by simply pressing **ON**.



## 4.13 Alarm clock and memo

The Alien/S keypad provides applications which allow the user to manage the events which when they occur activate a signal that is both audible and visual (in the form of popups on the display).

### Note

*The programming and activation of the clock and memo events are of no consequence to the programming or regular functioning of the control panel and its peripherals.*

The 'Alarm clock' and 'Memo' functions in the 'Apps' section access lists that provide all the events and, for each, provide buttons for activation (**ON**, **OFF**) and programming (**SET**).

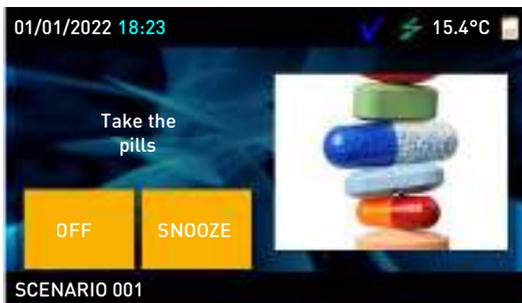


Each event can be programmed with:

- description
- day of the week, by selecting the respective button in the upper part of the 'When?' section
- time, by changing the field selected with the arrows

For 'Memo' events only, the user can also program:

- additional text
- day of the week or alternatively a specific date in the lower part of the 'When?' section
- a second time, in the 'When' section, by selecting **Time 1**
- if a specific date is programmed, you will be able to set a regular interval (periodicity) in the lower part of the 'When?' section and a time pattern (cadence) by tapping on the **OFF** button until you obtain the desired value
- audible signals and images that correspond to the memo



Touching the 'Alarm clock' or 'Memo' button for at least 5 seconds will delete all the programming in the section concerned.

When activation of the appropriately programmed event occurs, a window will appear similar to the one shown here. The **OFF** button deactivates signalling, whereas the **SNOOZE** button defers it for 5 minutes.



## 4.14 Thermostat

The 'Thermostat' function of the Inim Electronics control panel is managed via the 'Climate' section.



By accessing the section for the selection of one of the thermal probes (keypad or isolated) which the Alien/S keypad has access to. Then successively going to the section relating to the operating mode of the thermostat:

- Manual
- Daily
- Weekly
- Antifreeze
- OFF

Select the button which corresponds to the section you require, then set the parameters of the selected operating mode. You can change the temperature using the + and - buttons, and also the time frame and day (where available) by means of the arrow keys.

The Summer/Winter button will allow you to select the respective season.

The icons corresponding to the thermostat options are displayed of the upper tool bar on the home page.

## 4.15 View

The Alien/S keypad has sections for displaying the current status of all system elements.

The 'Activations' and 'Commands' sections allow the display of the status of the activatable elements and the outputs. It is possible to add other elements to these which can be reached through other sections:

- the events log (alarms, faults, arm/disarm operations, etc.), which shows the chronology with which the events occurred and were restored
- the status of the GSM communicator
- the control panel power-supply voltage, its firmware version and model
- the electrical status of the zones (stand-by, alarm, short-circuit, tamper) and their bypassed status
- any faults present

Access the 'Intrusion' section and enter the user code. The following sections will be available:



### Partitions

In the 'Partitions' section, the partitions are listed and show their arming status, which can be changed, as described in the paragraph *Arming commands and scenarios*.

The 'View partition status' option (refer to *Keypad settings*) will allow you to select the visualization mode of the operating status on the bottom bar of the screen:

- 'Single partition', the characters relating to the operating status of the partitions:
  - **D**, partition disarmed
  - **A**, partition armed in Away mode
  - **S**, partition armed in Stay mode
  - **I**, partition armed in Instant mode
  - -, partition does not belong to the keypad
- 'Single scenario', the description of the active scenario will be shown

## Zones

In the 'Zones' section, the zones are listed in this and show their status icons (positioned to the left of each zone description):

-  green spot - stand-by status
-  red spot - alarm status
-  yellow triangle - fault/tamper

Each zone is associated with two buttons, **ON** for activation and **OFF** for inhibition, and an icon which changes in accordance with the status:

-  , activated/enabled
-  , deactivated/disabled

## Events log

In the 'Events Log' section, all the events saved to the log are displayed one at a time. However, the up/down buttons will allow you to scroll the entire list of events. Each event shows the relative details and, where possible, allows you to view the partitions involved by means of the **PARTITIONS** button.

Access the 'System' section and enter the user code. The following sections will be available:

### Ongoing fault

The 'Faults' section allows you to view all the faults present on the system and, where possible, the fault details by means of the **DETAILS** button.

### Voltage

The 'Voltage' section allows the user to view the control panel power-supply voltage.

### GSM info

The 'GSM info' section allows you to view the parameters of the GSM communicator:





[A]	Mobile network provider
[B]	'--' means that the communicator is connected to the BUS. 'C' means that data transfer is in progress.
[C]	Data network technology: <ul style="list-style-type: none"><li>• G, GPRS service</li><li>• 3G, UMTS service</li><li>• H, HSPA service</li><li>• 4G, LTE service</li></ul>
[D]	GSM signal reception (value between 1 and 100)
[E]	Credit balance, at the last operation (expressed in the local currency)
[F]	Presence of ongoing faults

### Via Graphic maps

The visualization of the status and monitoring of the Inim Electronics system and its parts can also be achieved through the graphic maps accessible through the 'Maps' section in the 'Apps' section.



## 5. General information

### 5.1 About this manual

**Manual code:** DCMIINE0ALIENS

**Revision:** 112

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### 5.2 Manufacturer's details

**Manufacturer:** Inim Electronics S.r.l.

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**Web:** [www.inim.biz](http://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.

### 5.3 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 or 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.

## 5.4 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.

## 5.5 Simplified EU Declaration of Conformity

Hereby, Inim Electronics S.r.l. declares that the radio equipment type Alien/S 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](http://www.inim.biz).

## 5.6 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](http://www.inim.biz), getting access to Extended Access and then selecting "Certifications" or requested to the e-mail address [info@inim.biz](mailto: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](http://www.inim.biz), getting access to the reserved area, after the login, and then to the section of each product.

## 5.7 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 400m<sup>2</sup>, 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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