EN 50131-1
EN 50131-3
EN 50130-4
EN 50130-5
CEB T031

nCode/G

Keypad

Installation and programming manual

inim

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1. Description of nCode/G

The keypad is the most complete and versatile device for system management.

For each keypad the installer assigns the partitions it belongs to and the sections of the system that user codes can access through it.

The graphic display shows the necessary information and provides a user-interface based on a user menu and icons for the operations to be performed.

Main features

- Backlit graphic display
- Icon interface
- 4 signalling LEDs
- Signal buzzer
- Tamper and opening protection
- Mounts to '503' outlets
- 1 Input/Output terminal
- Colours available: black or white

Accessing the keypad

Each user, who enters a valid PIN code on the keypad that is recognized by the control panel, can be enabled to operate on the system or on part of it.

In order for code users to access their menus, they must first have their codes validated. This can be done by typing-in the code PIN and pressing the '**OK**' button.

Shortcuts

It is possible to extend the use of some of the system shortcuts to users without assigned codes.

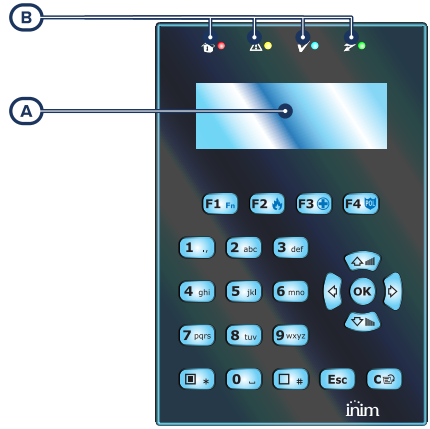
By means of the keypads it is possible to use the shortcut functions associated with the keys '**F1**', ..., '**F4**', these operations are usually reserved for authorized users (users with assigned codes).

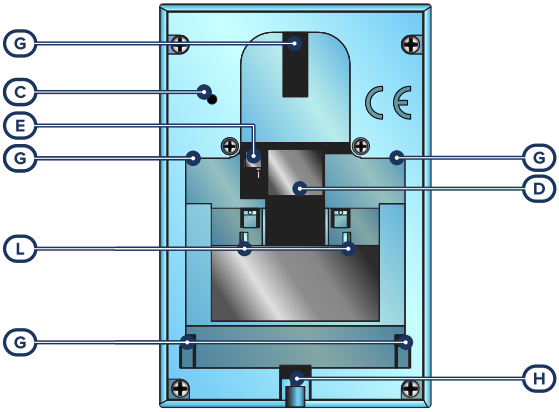
Chrono-thermostat

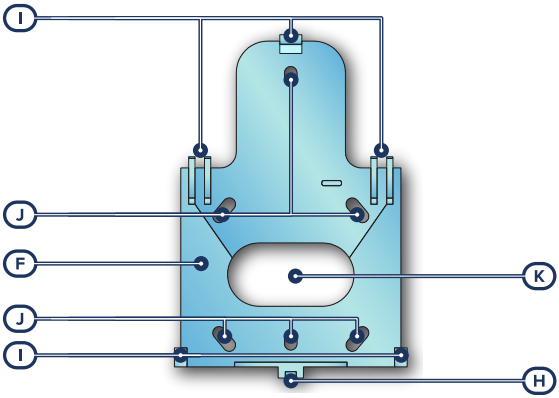
From each keypad, the user has access to the management of a heating/air conditioning system. This capability is due to the control-panel chronothermostats function, combined with the connected temperature probes, whether these are wired, wireless or integrated into the keypads themselves.

It is necessary however that the programming of the keypad in use allows access to the programmable thermostats in configuration.

1.1 Description of parts







[A]	Display
[B]	Signalling LEDs
[C]	Buzzer
[D]	Cable connector
[E]	Tamper microswitch
[F]	Mounting bracket
[G]	Bracket seat
[H]	Screw location
[I]	Back-locking grips
[J]	Mounting screw location
[K]	Cable entry
[L]	Guide for optional terminal board

1.2 nCode/G – connection cables

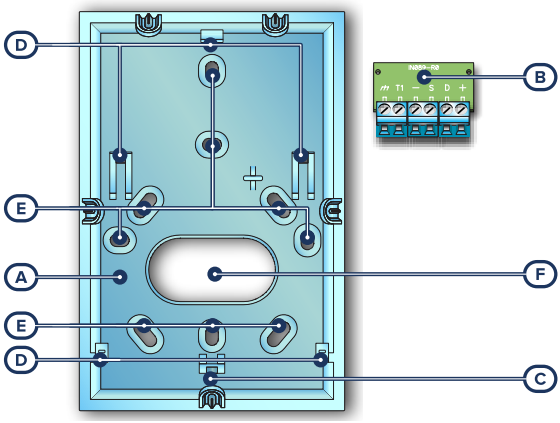
Connection of the keypads is done through the connector on the back which is to be connected via the 6-wire cable, supplied with the keypad, or via a KB100 terminal block, which can be ordered separately and sold with the deep-mount bracket.

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

The 'T1' terminal can be configured as:

- Input (also as 'rollerblind' or 'shock')
- Output
- 'Double zone' output

1.3 KB100 deep-mounting bracket



[A]	Deep bracket
[B]	Terminal board
[C]	Screw location
[D]	Back-locking grips
[E]	Mounting screw location
[F]	Cable entry

Terminal	description
⎓	Negative power terminal (Negative or GND)
T1	Screw terminal of keypad terminal T1
-	Terminal '-' for the I-BUS connection
S	Terminal 'S' for the I-BUS connection
D	Terminal 'D' for the I-BUS connection
+	Terminal '+' for the I-BUS connection

1.4 Technical specifications of nCode/G

Voltage	from 9 to 15V ⎓
Typical current draw	70mA
Input/Output terminals	1
Maximum current draw per terminal	150mA
Operating environmental conditions	

temperature	from -10 to +40°C
relative humidity	≤75% without condensation
Security rating	3
Environmental class	II
Dimensions (W x H x D)	87 x 129 x 18 mm
Weight including enclosure	135g

1.5 The nCode/G keypad screen

The backlit graphic LCD screen measures 96 x 32 pixels and allows brightness and contrast adjustment via the relative section in the user menu (refer to '*Keypad settings*').

The following table describes the messages which are shown on the keypad display, in accordance with the actual status of the control panel:

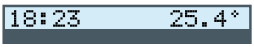
- **Stand-by** - indicates the control panel is functioning normally and there are no alarm, tamper or fault events present on the system.
- **Alarm** or **Zone tamper** - indicates that the control panel has detected trouble on a zone, such as zone violation (intrusion) or detection of a lost device
- **Maintenance** - indicates that the control panel is in maintenance mode for repair or programming purposes

<table>
<tr><th rowspan="2">display</th><th colspan="3">control panel status</th></tr>
<tr><th>Stand-by</th><th>Alarm or tamper</th><th>Maintenance</th></tr>
<tr><td rowspan="4">1st line</td><td> 

The first line of the display shows the date and time.</td><td rowspan="2"> 

If at least one of the keypad partitions has an alarm or tamper memory, the first line of the screen will flash the descriptions of the zones involved every 3 seconds.

Note
Open zones are signalled by blinking on the red LED.</td><td> 

If the control panel is in maintenance mode, a string will be shown indicating the address of the keypad in use (in the figure, the keypad at address 3).</td></tr>
<tr><td> 

If the keypad is equipped with a thermostat, the date and room temperature will alternate on the screen every 3 seconds.</td><td> 

If you are using a keypad with an integrated proximity reader, the string will also show the address of its reader (in the figure, the reader is at address 5).</td></tr>
<tr><td> 

If the 'View open zones' control-panel option is enabled, approximately every 3 seconds the descriptions of zones that are not in stand-by status will be shown in sequential order when the keypad partitions are disarmed.

Any auto-bypassable zones will be shown in negative.</td><td colspan="2"> 

If the control panel is in maintenance mode and at least one keypad partition has an alarm or tamper memory, the above-described strings will alternate on the display.</td></tr>
<tr><td>2nd line left</td><td> 

The left side of the second line shows the characters that indicate the current status of the par-</td><td> 
</td><td>The line remains unchanged with respect to the stand-by status</td></tr>
</table>

<table>
<tr><th rowspan="2">display</th><th colspan="3">control panel status</th></tr>
<tr><th>Stand-by</th><th>Alarm or tamper</th><th>Maintenance</th></tr>
<tr><td></td><td>titions the keypad is assigned to:
• 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</td><td> 

If there is presence of a partition alarm/tamper memory, the red LED on the keypad will blink as will the characters corresponding to the partitions involved.</td><td></td></tr>
<tr><td></td><td colspan="3"> 

If the ‘Show scenario’ option of the control panel is enabled, the description of the active scenario will be shown on the left side of the second line of the display.</td></tr>
<tr><td>2nd line right</td><td colspan="3"> 

The right side of the second line shows several icons which provide visual information regarding the system.</td></tr>
<tr><td>3rd and 4th line</td><td colspan="3"> 
Lines three and four on the display are occupied by the icons which correspond to the shortcuts assigned to function keys ‘F1’, ..., ‘F4’. If no shortcuts are programmed on the keypad function keys, the respective spaces on the display will remain empty.</td></tr>
</table>

1.6 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 nCode/G 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
Peripheral Loss		Solid	At least one peripheral device is not responding
			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
Peripheral tamper		Solid	At least one peripheral (keypad, reader, expansion) is in tamper status (enclosure open or dislodged)
			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).
			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

Icon			Signalling
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

1.7 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 nCode/G keypad screen:

Activation	Red LED	Yellow LED	Blue LED	Green LED
OFF	All the keypad partitions are disarmed	No faults present	Open zones on the keypad partitions	Primary power failure (230V a.c.)
ON	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 memory of a system alarm is present.	No faults present At least one of the zones belonging to the keypad partitions is either disabled (inhibited) or is in Test status PSTN or GSM communicator is disabled	All the zones belonging to the keypad partitions are in stand-by status An unplayed voice message is present in the voicebox	
Fast blinking (ON: 0.15sec OFF 0.15sec)	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

1.8 Signalling on the Buzzer

The keypads provide the user with audible signals via the buzzer, that is, unless the buzzer is muted by the user.

If the keypad has voice functions, the buzzer will also signal incoming intercom calls from another keypad.

The buzzer signals the running entry, exit and pre-arm times of enabled partitions. Activation of these signals can be set up by means of the keypad options described in the paragraph '*Keypad settings*'.

If the control panel is duly programmed, the keypads will be able to generate alarm signals on the buzzer.

Signalling	Signal type
Button pressed	Single pulse (beep)
Entry time running	8 pulses + 5 second pause
Exit time running	3 pulses + 5 second pause; 4 short pulses + 5 second pause during the final 20 seconds of the exit Time
Pre-arm time running	1 pulse + 5 second pause
Activation of the output connected to terminal 'T1' on the keypad	Continuous audible signal for the entire duration of output activation
Intercom call	Two-tone pulse
Alarm	Fast pulses

1.9 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).

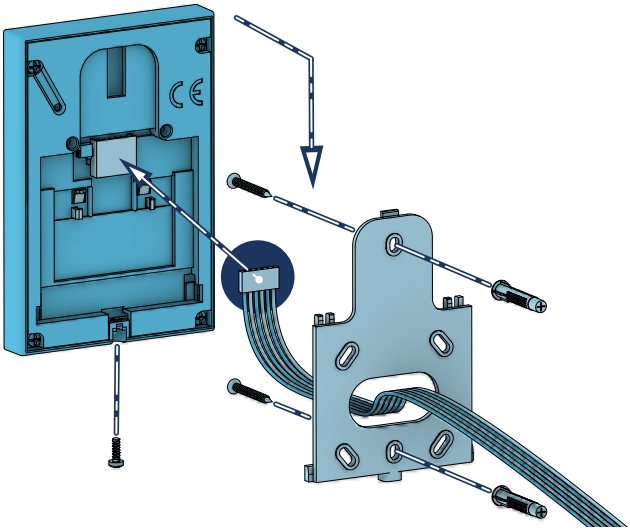
To activate an emergency request, press and hold for 3 seconds the required key combination and wait for the confirmation beep, as follows:

Key combinations	Emergency
F1 Fn + F2	Fire
F1 Fn + F3	Ambulance
F1 Fn + F4 POL	Police

Note

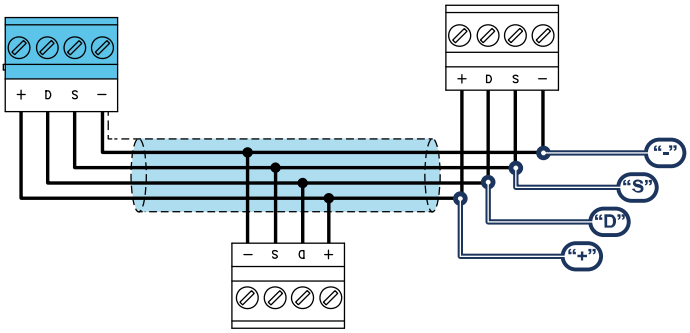
If any two function keys are pressed at the same time, the shortcuts relating to the icons associated with the keys will not be activated.

2. Installation of the nCode/G keypad



1. Connecting the device to the system
2. Pull the connection wires through the wire entry (*Description of parts, [K]*).
3. Connect the wires to the connector on the back of the keypad (*Description of parts, [D]*).
   If you wish to use the connector with the *'KB100' kit* terminals, connect the wires to the terminals and insert the connector along the guides (*Description of parts, [L]*) until it snaps closed.
4. Using at least 2 screws, mount the bracket to the wall.
5. Attach the keypad to the bracket by means of the back-locking grips as shown in figure.
6. Fasten the screw (included) into the screw location, to secure the keypad properly to the bracket (*Description of parts, [H]*).

2.1 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 (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 isolators.

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

2.2 Addressing of nCode/G

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.

2.2.1 Addressing via keypad

Via nCode/G

To assign addresses to nCode/G, work through the following steps:

1. Put the control panel in 'Maintenance' mode.
2. Using the keypad you want to address, press and release keys '**1**' and '**3**' simultaneously.
3. Set the desired address then press '**OK**'.
4. Enable or disable the anti-dislodgement tamper switch by pressing key '**1**' or '**2**'.
5. Enable or disable the anti-opening tamper switch by pressing key '**1**' or '**2**'.

Note

For safety purpose, if the address is not set within 30 minutes of accessing the control panel in 'Maintenance' mode, the keypad will exit the programming phase.

2.2.2 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.

2.2.3 Enrolling of nCode/G

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 nCode/G

The programming of nCode/G 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
Wrong PIN keypad lockout	If a wrong code is typed-in at a keypad more than 5 times in succession, the keypad will lock for 10 minutes. The count restarts from 10 minutes in the case of control panel reset or entry into programming.	 Keypad parameters	`Parameters` `Keypad lockout`
View open zones	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`
Show scenario	The second line on the keypad display, on the left side, will show the description of the active scenario.		`Show scenario`
Message repetitions on voice keypad	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`
Press key to end playback	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
Description	Description of the keypad, customizable by the installer.		Configured keypads, selected keypad	Keypads, ChoosePeripheral, "keypad"
Keypad type	Checkbox for the selection of the keypad type: • Keypad with display and keys • Touch-screen keypad • Wireless keypad			-
Partitions	Section for the selection of the partitions the keypad can operate on.		Configured keypads, selected keypad, General	Keypads, ChoosePeripheral, "keypad"
Disable temperature visualization	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
Disable audible entry-time signal	This option enables/disables the buzzer during partition entry-time			NoEntryTimeSign.
Disable audible exit-time signal	This option enables/disables the buzzer during partition exit-time			NoExitTimeSignal
Audible signal on terminal T1 output	This option enables/disables the buzzer when the keypad terminal T1 is activated as an output.			Beep on output
Disable chime	This option enables/disables the buzzer that signals the violation of the bell zone relative to the keypad.			Disable chime
LED OFF in stand-by	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
Bypass wireless supervision	If enabled, this option inhibits the monitoring function the control panel must perform on the wireless keypad.			NO Superv. WLS
Bypass tamper	If enabled, this option inhibits signalling on the control panel of wireless keypad tamper.			Disable tamp. WLS
Enablement of home-automation outputs	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	-
Thermostats managed by keypad	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.
Thermostat on keypad	This key directly accesses the programming section of the "Thermostat ON" event		Configured keypads, selected keypad	Events, Thermostat ON
Valid code at keypad	This key directly accesses the programming section of the "Valid code at keypad" event			Events, Valid Code
Temperature adjustment	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
Shortcuts		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`
Shortcut parameter		It is necessary to specify a further parameter for each shortcut: • **Execute Arm/Disarm**, the parameter is one of the scenarios • **Activate output**, the parameter is an output • **Deactivate output**, the parameter is an output • **Activate output scenario**, the parameter is one of the scenarios • **Panic**, this parameter is one of the panic events		`F1/4KeyShortcuts, "Fx", Type`
Shortcut options	Requires code	If this option is enabled and a user selects the shortcut by pressing the relative function key, before activation of the shortcut occurs, the system will request entry of a user code . If the user code is valid the shortcut will be applied.		`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`
Disable exit time signal		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`
Disable entry time signal		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.		`NoEntryTimeSign.`

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 Keypad settings

The keypads have a section for programming the display and buzzer features of keypads which access to the system.

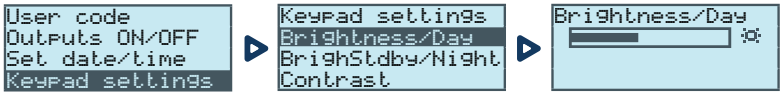
The parameters which are available depend on the type of keypad.

Via keypad

The user can operate via the keypad in two ways:

- by activating the 'Keypad settings menu' shortcut (shortcut n.18), associated with one of the keys '**F1**', ..., '**F4**' shown on the display, with or without code entry

- access the 'Keypad settings' section of the User menu by entering a valid PIN



1. Use the 'up' and 'down' arrow keys followed by '**OK**' to select the parameter to be programmed.
2. Use the 'up' and 'down' arrow keys to increase or decrease the value of the selected parameter. To activate the selected option press '■', to deactivate it press '□'.
3. Press '**OK**' to save.

Parameters

- **Brightness** - the intensity of the backlight of the display and key LEDs, when a key is pressed and for the following 20 seconds.
- **Standby brightness** - the intensity of the backlight of the display and key LEDs when the keypad is in stand-by status.
- **Contrast** - black/white contrast adjustment.
- **Volume** - intensity of buzzer loudness.
- **Keypad options**:
  - **Temperature off** - if enabled, the temperature value read by the integrated temperature sensor will not be shown (only for temperature-sensor equipped keypads).
  - **NoExitTimeSignal** - if enabled, the buzzer will not emit audible signals during partition Exit time.
  - **NoEntryTimeSign.** - if enabled, the buzzer will not emit audible signals during partition Entry time
  - **Beep on output** - if enabled, the buzzer will emit an audible signal during activation of keypad terminal 'T1', when this is programmed as an output
  - **Chime** - if enabled, the buzzer will not emit audible signals when a chime zone is violated.
  - **LEDsOffInStandby** - if enabled, this option switches of the relative LEDS after at least 40 seconds of inactivity on the keypad.

These settings apply only to the keypad you are working on, and will be saved even in the event of panel shutdown.

3.3 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`

3.3.1 Chronothermostats parameters

Parameter		Software section	Installer menu section
Description	String that describes the temperature sensor, customizable by the installer	 Configured thermostats, selected thermostat	`TemperatureProbe, ChoosePeripheral, "sensor", Description`
Activatable outputs	In this section you can select the outputs that can be activated by the thermostat function relating to the probe being programmed. There are 4 outputs that can be activated when the thermostat is in “summer” mode and 4 when it is in “winter” mode.		/
Temperature 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).		`Hysteresis`
Programming the chronothermostat	Section relative to the programming of chronothermostat. You can program the thermostat and also adjust its temperature setting and operating times. The adjustment of the temperature (manual or operating time mode) is allowed by indicators on level bars. The **Read** button allows you to read the thermostat schedule and ambient temperature detected by the provided thermometer. The **Write** button allows you to set the schedule.		

4. General information

4.1 About this manual

Manual code: DCMIINE0NCODEG

Revision: 111

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 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.

4.4 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.

4.5 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.

4.6 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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