



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



# Joy

Keypad

---

Installation and programming manual

---

The logo for 'inim' features the letters 'i', 'n', 'i', and 'm' in a blue, lowercase, sans-serif font. Above the 'i's and 'n' are three small blue dots of varying sizes.



## Table of contents

1. Description of Joy .....	3
1.1 Description of parts .....	4
1.2 Joy – terminal board .....	5
1.3 Technical specifications of Joy .....	5
1.4 The Joy keypad screen .....	6
1.5 Status icons on screen .....	7
1.6 Visual signals on the keypad LEDs .....	8
1.7 Signalling on the Buzzer .....	10
1.8 Emergency functions .....	10
2. Installation of the Joy keypad .....	11
2.1 Connecting to the I-BUS line .....	12
2.2 Addressing of Joy .....	13
2.2.1 Addressing via keypad .....	14
2.2.2 Fast addressing of keypads and readers .....	14
2.2.3 Enrolling of Joy .....	14
3. Programming of Joy .....	16
3.1 Keypad programming .....	16
3.1.1 Keypad parameters .....	16
3.2 Keypad settings .....	18
3.3 Programming of proximity readers .....	19
3.3.1 Reader parameters .....	20
3.4 Programming thermostats .....	20
3.4.1 Chronothermostats parameters .....	21
4. General information .....	22
4.1 About this manual .....	22
4.2 Manufacturer's details .....	22
4.3 Warranty .....	22
4.4 Limited warranty .....	23
4.5 Simplified EU Declaration of Conformity .....	23
4.6 Documents for the users .....	23
4.7 Disposal of the product .....	23

# 1. Description of Joy

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	Models	
	Joy/GR	Joy/MAX
Backlit graphic display	..✓	..✓
Icon interface	..✓	..✓
4 signalling LEDs	..✓	..✓
Signal buzzer	..✓	..✓
Tamper and opening protection	..✓	..✓
Mounts to '503' outlets	..✓	..✓
2 Input/Output terminals	..✓	..✓
Thermometer	-	..✓
Microphone and loudspeaker for voice functions	-	..✓
Built-in proximity reader	-	..✓

## 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.



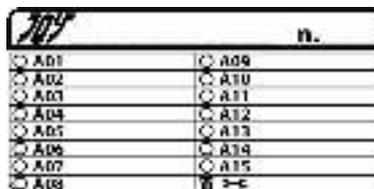
[H]	Cable entry
[I]	Wall-mount screw locations
[J]	Dislodgement-tamper microswitch screw location
[K]	Dislodgement-tamper microswitch spring
[L]	Loudspeaker
[M]	Speaker cable connector
[N]	PCB board retainers
[O]	Hole for the temperature sensor

## 1.2 Joy – terminal board

no.	identifier	description
1	+	Terminal '+' for the I-BUS connection
2	D	Terminal 'D' for the I-BUS connection
3	S	Terminal 'S' for the I-BUS connection
4	-	Terminal '-' for the I-BUS connection
5	T1	Screw terminal of keypad terminal T1
6	1*	Negative power terminal (Negative or GND)
7	T2	Screw terminal of keypad terminal T2
8	1*	Negative power terminal (Negative or GND)

Terminals 'T1' and 'T2' can be configured as:

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



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

## 1.3 Technical specifications of Joy



Model	Joy/GR	Joy/MAX
Voltage	from 9 to 15V $\overline{=}$	
Typical current draw	70mA	90mA
Input/Output terminals	2	2
Maximum current draw per terminal	150mA	150mA
RFID reader		
Band frequency	/	119-128.6 kHz
Field strength H (max.)	/	66dB $\mu$ A/m at 10 m
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)	142 x 116 x 24 mm	
Weight including enclosure	160g	180g



(EN IEC 62368-1)

Terminal type	+ D S -	ES1, PS2
	T1, T2	ES1, PS1

## 1.4 The Joy 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

display	control panel status		
	Stand-by	Alarm or tamper	Maintenance
1st line	 The first line of the display shows the date and time.	 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.	 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).
	 If the keypad is equipped with a thermostat, the date and room temperature will alternate on the screen every 3 seconds.	<p style="text-align: center;"><b>Note</b> </p> Open zones are signalled by blinking on the red LED.	 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).
2nd line left	 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.	  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.	
	 Any auto-bypassable zones will be shown in negative.		
2nd line right	 The left side of the second line shows the characters that indicate the current status of the partitions the keypad is assigned to: <ul style="list-style-type: none"> <li>• D = partition disarmed</li> <li>• A = partition armed in Away mode</li> <li>• S = partition armed in Stay mode</li> <li>• I = partition armed in Instant mode</li> <li>• - = partition does not belong to the keypad</li> </ul>	  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.	The line remains unchanged with respect to the stand-by status
		 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.	
3rd and 4th line	 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.		

## 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 Joy 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
		Animated	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)
		Animated	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).
		Animated	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
Thermostat: Winter mode		Solid	The keypad thermostat option is enabled in Winter mode (Heating).
Thermostat: Summer mode		Solid	The keypad thermostat option is enabled in Summer mode (Air-conditioning).
Thermostat: Heating/Air-conditioning		Solid	Heating/Air-conditioning On.

## 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 Joy 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

Activation	 Red LED	 Yellow LED	 Blue LED	 Green LED
<b>Slow blinking</b> (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	
<b>Fast blinking</b> (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

## 1.7 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

## 1.8 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).

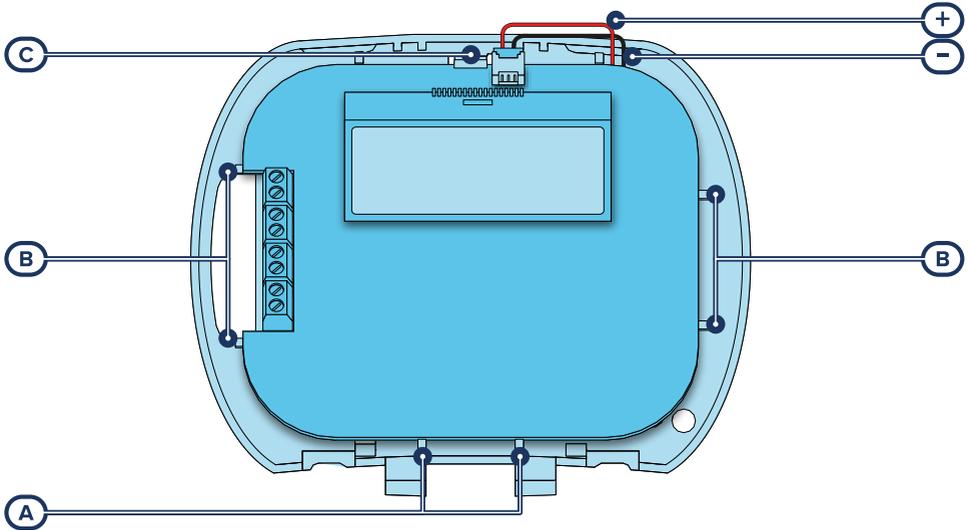
To activate an emergency request, press and hold for 3 seconds the required key combination and wait for the confirmation beep, as follows:

Key combinations	Emergency
	Fire
	Ambulance
	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 Joy keypad



1. Remove the keypad from its package.
2. Detach the cover and down-flip (lid) from the enclosure.
3. Remove the board from the backplate. Be careful not to damage the dislodgement-tamper spring during this operation (*Description of parts, [K]*).
4. Mark the chosen fixing-screw locations on the wall. Use at least 2 of the 7 screw locations available. Pull the BUS and terminal connection wires through the wire entry (*Description of parts, [H]*).
5. Using the screw, fasten the dislodgement-tamper bracket into its screw location (*Description of parts, [J]*).
6. (For Joy/MAX only) Plug the speaker connector (*Description of parts, [M]*) into the keypad circuit, ensure that polarity is correct (black wire to the right and red wire to the left).

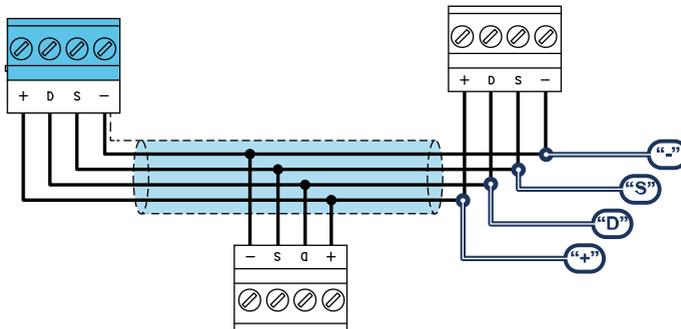
### Note

Be careful not to damage the connector during this operation.  
If it is necessary to disconnect the connector from the speaker, use a small screwdriver or similar tool to disengage it by pressing lightly on the part in plastic. DO NOT pull the connector out by the wires.



- Place the circuit on the two lower supports [A] and, after aligning it with the other supports [B], push the back-locking grip [C] slightly outwards until it clicks closed. Pay attention to the anti-dislodgement spring.
- Replace the cover and down-flip (lid). If necessary, secure the two screws into their screw locations on the bottom part of the cover.

## 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 (mm <sup>2</sup> )	I-BUS terminal
4 wire cable + shield	2	0.5	+ -
	2	0.22	D S
6 wire cable + shield	2	0.5	+ -
	2	0.22	D S
	2	0.22	available
6 wire cable + shield	2	0.75	+ -
	2	0.22	D S
	2	0.22	available

- 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.

## 2.2 Addressing of Joy

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 Joy

To assign addresses to Joy, 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. If the keypad has a built-in reader, enable or disable the reader by pressing key '1' or '2'.
5. If the reader is enabled, assign the address and press 'OK'.
6. Enable or disable the anti-dislodgement tamper switch by pressing key '1' or '2'.
7. 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 Joy

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:

Type-in Code (Installer), PROGRAMMING Keypads, Enable/Disable

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

## 3. Programming of Joy

The programming of Joy 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>	 Keypad parameters	Parameters Keypad lockout
<b>View open zones</b>		View open zones
<b>Show scenario</b>		Show scenario
<b>Message repetitions on voice keypad</b>		Parameters, Other Parameters, LockPadMessTimes
<b>Press key to end playback</b>		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>			
<b>Shortcut parameter</b>	Requires code	F1/4KeyShortcuts, "Fx", Type  F1/4KeyShortcuts, "Fx", Options, Requires code	F1/4KeyShortcuts, "Fx", Options, Requires code	
	Code entry in the event of security risk			SecurityRiskCode
	Requires confirmation			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 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 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>	Section for the programming of the proximity reader addresses.	 Reader parameters	Readers, Prog. address
<b>Address LED codes</b>	Section for the visualization of how the addresses will be reproduced on the LEDs.		/

#### 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
<b>Partitions</b>	Section for the selection of the partitions the reader can operate on.		
<b>Type</b>	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.		Configured readers, selected reader, Shortcut
<b>Parameter</b>	It is necessary to specify a further parameter for each shortcut: <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>		
<b>Valid key at reader</b>	Button to access directly the programming section of the 'Valid key at reader' event		Configured readers, selected reader

## 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. General information

### 4.1 About this manual

**Manual code:** DCMIINE0JOY

**Revision:** 110

**Copyright:** The information contained in this document is the sole property of Inim Electronics S.r.l.. Copying, reprinting or modification of this document, in part or as a whole, is not permitted without prior authorization in writing from Inim Electronics S.r.l.. All rights reserved.

### 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](mailto:info@inim.biz)

**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.

### 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 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.

## 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 Simplified EU Declaration of Conformity

Hereby, Inim Electronics S.r.l. declares that the radio equipment type Joy/MAX 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).

## 4.6 Documents for the users

Declarations of Performance, Declarations of Conformity and Certificates concerning to Inim Electronics S.r.l. products may be downloaded free of charge from the web address [www.inim.biz](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.

## 4.7 Disposal of the product



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

The crossed-out bin symbol on the equipment or on its packaging indicates that the product must be disposed of correctly at the end of its working life and should never be disposed of together with general household waste. The user, therefore, must take the equipment that has reached the end of its working life to the appropriate civic amenities site designated to the differentiated collection of electrical and electronic waste. As an alternative to the autonomous-management of electrical and electronic waste, you can hand over the equipment you wish to dispose of to a dealer when purchasing new equipment of the same type. You are also entitled to convey for disposal small electronic-waste products with dimensions of less than 25cm to the premises of electronic retail outlets with sales areas of at least 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

---

**Inim Electronics S.r.l.**

Via dei Laboratori 10, Loc. Centobuchi  
63076 Monteprandone (AP) ITALY  
Tel. +39 0735 705007 \_ Fax +39 0735 704912

info@inim.biz \_ [www.inim.biz](http://www.inim.biz)



DCMIINE0JOY-110-20230802