



INCERT CEB T031



Aria Wireless keypad

Installation and programming manual







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GENERAL INFORMATION

About this manual 1-1

DCMIINE0A2ARIAV8 MANUAL CODE

1.10 VERSION

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Manufacturer's details 1-2

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The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work on INIM Electronics brand devices only.

Air2 System Description 1-3

The Air2 two-way wireless intrusion protection system (868MHz frequency) integrates directly with all models in INIM intrusion control panel range.

Table 1: Technical specifications of Air2 system

Operating	range	868.0 - 868.6MHz 868.7 - 869.2MHz
frequency	selectable primary channels	868.1, 868.3, 868.5MHz
	selectable secondary channels	868.9, 869.1MHz
C	Two-way	
	GFSK	
	from 12 to 250 minutes	

In order to comply with the EN 50131-1 standards the alarm system supervision time must be below 120 minutes.

Note

For secure deployment and operations of the Air2 wireless intrusion protection system, it is necessary to refer to the Installation and programming guide of the hardwired intrusion control panel in use.

General information 3



KEYPAD DESCRIPTION

The Aria wireless keypad provides all the necessary functions for control and management of a SmartLiving installation equipped with an Air2 system, which it can interface with through the Air2-BS200 transceiver. It integrates all the functions of a hard-wired keypad and provides a graphic icon display.

It is equipped with an accelerometer which provides both anti-tamper and "wakeup" from stand-by functions, whereas the brightness sensor controls the display and key brightness optimally with respect to the surrounding environment. Moreover, it has an automatic shutdown function in the event of loss of wireless connection.

Aria is also equipped with a connector which allows hardwiring connection if required.

Table 2: Technical specifications

·				
Battery	type	CR17450 Lithium battery - 3V - 2200mAH, 2		
	estimated life	2 years		
"Low battery" fa	ault voltage	Less than 2.4V		
Ancillary pow	er supply	6 - 20 V 		
Current draw	during standby	80μΑ		
Current draw	maximum	50mA		
Operating	temperature	from -10°C to +40°C		
environmental conditions	relative humidity	≤93% without condensation		
Dimensions (V	V x H x D)	140 x 115 x 27mm		
Weigh	nt	255g		
Security r	ating	2		
Environmen	tal class	II		
ACE ty (Ancillary Contro	pe I Equipment)	А		
Number of Aria keypa Air2-BS		Maximum 4		

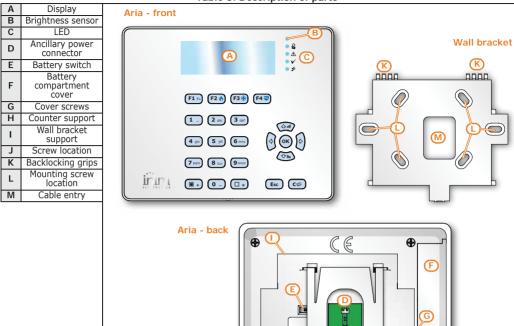
- Communicates with Air2-BS200 transceiver @ 868MHz
- Backlit graphic display
- Icon Easy4U interface
- Programmable backlight
- Brightness sensor
- 4 indicator LEDs
- Signal buzzer
- Inertial tamper protection
- Accelerometer controlled "Wakeup" function
- Mounts to "503" outlets
- Attaches to wall bracket or counter support
- 6 -20V ancillary power connector====
- "Rolling-code" authentication

FUNCTIONS





Table 3: Description of parts



Keypad description 5

INSTALLATION

The Aria keypad can be mounted in two ways each of which requires a different installation procedure:

- Counter mount, with no fixed installation point.
 - When using this method, it is necessary to disable the keypad tamper-signal option on the control panel.
 - You can stand the keypad on flat surfaces by means of the support on the back of the device (table 3, H).
- Wall mount by means of the wall bracket (see paragraph 3-2 Wall-mounting).
 For this mode it is advisable to enable the keypad tamper-signalling option on the control panel.

For instructions regarding keypad tamper signalling refer to the programming manual of the SmartLiving control panel.

Power supply

Power to the keypad can be supplied in two different ways:

- By means of the connector on the back of the device (table 3, D) which allows 6-20
- By means of two CR1745 Lithium batteries installed in the battery compartment (table 3, F).

The battery power supply can be turned On or Off by means of the switch on the back of the device ($table\ 3$, E).

The manufacturer cannot guarantee the declared battery life.

Do not use batteries other than those indicated by the manufacturer as they may explode.

Used batteries must be disposed in accordance with local regulations.

3-1





ATTENTION!

3-2

Wall-mounting

- 1. Choose a suitable mounting placement.
- 2. Put the wall bracket on the selected placement and mark the screw holes (table 3, L).
- 3. Drill the holes.
- 4. If you intend wiring the device, pull the wires through the cable entry (*table 3, F*) and wire up the keypad.
 - If you intend using the batteries, place them in the battery compartment and put the switch in the "ON" position (refer to paragraph 3-1 Power supply).
- 5. Using the anchor screws, secure the bracket to the wall.
- 6. Enroll the device (refer to paragraph 3-3 Enrolling keypads).
- Mount the keypad to the wall bracket, by first inserting the locking grips (table 3, K) in place, then by pushing the keypad toward the wall then downward.
- B. Fasten the securing screw in place (table 3, J).

. 6 Installation





Enrolling keypads 3-3

The SmartLiving control panel can manage up to 4 Aria keypads for each Air2-BS200 installed. However, each control panel model supports a maximum number of keypads which must be respected.

During the addressing phase use free addresses only and ensure that no other keypads (Joy, Concept, NCode or Alien) are present at the address of the Aria keypads.

Via Keypad:

- 1. Access the Installer menu, select "Keypads" then "ChoosePeripheral".
- 2. From the list that appears select the keypad to be assigned to the wireless function.
- 3. Select the "Wireless" option.
- 4. From the list select the wireless reader simulated by the Air2-BS200 transceiver the Aria keypad is to be associated with.
- 5. Access the "Enroll device" section, then select "Wireless Keypad".

Via SmartLeague:

- 1. Select a keypad from the those configured in the System Tree Menu.
- Access the keypad "Programming" section and click on the "Wireless Keypad" check box.
- 3. Click on the "Enroll" button. The enrollment process window will open.
- 4. From the list select the wireless reader simulated by the Air2-BS200 transceiver the Aria keypad is to be associated with.
- 5. Click on the "Enroll" button.
- 6. Click simultaneously on buttons "1" AND "3" on the Aria keypad.

This operation sends the enrollment request. If the keypad menu appears, select "Enroll" option (paragraph 4-4 Info/

Once the device is enrolled, the Aria keypad will confirm the successful outcome of the operation.

Via Keypad:

setup menu).

the keypad that generated the enrollment process will emit a confirmation beep.

Via SmartLeague:

The software window will show a a confirmation message.

Programming via Aria keypad

3 - 4

The programming of the SmartLiving system can be done via Aria keypad in the same way of any keypad connected to the control panel.

However, the programming procedure is canceled by the control panel at the occurrence of one of the following operations:

- Unenrolling of an Aria keypad via the Aria keypad itself
- Restoring to factory data of the wireless system via an Aria keypad
- Restoring to factory data of all SmartLiving system via an Aria keypad

Installation

USE OF DEVICE

Operating statuses 4-1

The Aria keypad has 3 operating statuses

- Activate
- Stand-bv
- No communication

During this status the keypad will be at maximum power consumption level due to **ACTIVATE** the active status of:

- Display
- Backlighting
- Signal LEDs

By means of the interface with the control panel it is possible to access the User and installer menus and carry out the same operations that can be accessed from other keypads on the SmartLiving system.

The keypad is not equipped with a proximity reader, voice functions, thermostat and thermal probe.

The "active" status will hold for as long as there is activity on the keypad (keys are being pressed or the buzzer is active). If there is no activity for 10 consecutive seconds the status will pass from "active" to "stand-by".

During this status the keypad display will be off, the signalling LEDs will be Off or blinking, and the wireless transmission (broadcast) will be active.

The Stand-by status will hold until a key is pressed, or a remote activation occurs (for example, the buzzer signals an Exit Time) or the keypad is moved.

During this status the display, backlight and LEDs will be off.

The keypad will enter this status when the wireless communication with the control panel is interrupted in a continuous way. When the keypad enters this status the "NO COMUNICATION" message will appear on the display.

The keypad will try to communicate with the control panel at one-minute intervals in an attempt to re-establish communication.

STAND-BY

NO COMMUNICATION

Backlighting 4-2

The backlight can be programmed from the keypad in accordance with the measured ambient-brightness. The keypad manages two different brightness settings:

- Day
- Night

These settings can be programmed via the "Keypad" option from the "Options" section in the User menu.

Please note that the backlight is the most important factor with regard the consumption of battery power.

8 Use of device





"Rolling-code" authentication

4-3

A further guarantee of security for Aria keypad wireless transmissions are the over-the-air random codes. These random codes allow the Air2-BS200 to authenticate the validity of each wireless keypad transmission.

In the event of irregular wireless activity, the requested operation will not be completed.

To reset wireless transmissions and rolling code authentication, press and hold keys $^{\rm n}$ and $^{\rm n}$ 3" simultaneously.

Info/setup menu 4-4

Aria has menu of its own for the access to some information on the keypad and on the wireless system, and for some programming functions.

The menu, in full version, has 7 options. It can be are activated by holding the keys "1" and "3" simultaneously when the keypad has been enrolled and the SmartLiving control panel is in maintenance status.

In the case of Aria factory data restoration, the menu is automatically activated, but in a shortened version, showing the first three options only.

The sections of the menu are:

- Enroll starts enrollment process
- **Keypad Info** information regarding the keypad and installation of the Air2.



1st line:

- WK: operating frequency
- Ver: firmware version of the Aria keypad

2nd line

- SN: serial number of the Aria keypad

3rd line:

- N: number of the Aria keypad managed by the Air2-BS200
- WK: address of the Aria keypad in the control panel
- Ch: RF transmission channel, primary [X] and secondary [Y] (refer to "secondary channel")

4th line:

- BS: address in the control panel of the associated Air2-BS200 transceiver
- SN: serial number of the associated Air2-BS200 transceiver
- Power Info battery charge percentage or presence of the ancillary voltage
- Second W Channel selects the RF support channel which guarantees the
 operating capacity of the keypad.
 - This channel must always be different from the primary channel used by the Air2-BS200 transceiver.
- Factory data starts a restore of the factory default settings after a confirmation request
 - This procedure deletes also the keypad address on the control panel. After this the info/setup menu will be shown in a shortened version, with the first three options only.
- Test RF carries out an analysis of the primary wireless channel and shows the average RSSI value of the signal and a value from 0-100 which indicates the channel quality (the RF Test function is enabled only when the control panel is in maintenance mode).
- Update Firmware starts the upgrade of the wireless firmware.

Use of device 9



Appendix A

DECLARATION OF CONFORMITY

Hereby, INIM Electronics s.r.l. declares that this Air2-Aria is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

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.





Appendix B

INFORMATION ABOUT DISPOSAL OF BATTERIES AND ACCUMULATORS

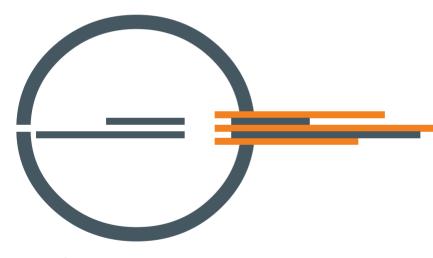
(Applicable in Countries with separate collection systems)

This marking on batteries and/or their manual and/or their packaging, indicates that batteries of these products, at the end of their working life, should not be disposed of as unsorted municipal waste, but must be object of a separate collection. Where marked, the chemical symbols Hg, Cd o Pb indicate that the battery contains mercury, cadmium or lead above the reference levels of the directive 2006/66/EC. If batteries are not properly disposed of, these substances, together with other ones contained, can cause harm to human health and to the environment.

To protect human health and the environment, to facilitate treatment and recycling of materials, separate batteries from other kind of waste and use the collection scheme stated in your area, in accordance to current laws.

Before disposing of the above, it's appropriate to remove them from their holders avoiding to damage them or causing short circuits.







ISO 9001 Quality Management certified by BSI with certificate number FM530352

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