



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

# AIR2



# KF100/S, Pebble/S, Ergo/S

Remote control keys

---

Installation and programming manual

---

inim

## Table of contents

1. Description of the Air2 system .....	3
2. Description of Air2 wireless remote-controls .....	4
2.1 Description of parts .....	5
2.2 Technical specifications of Air2 remote-control keys .....	5
2.3 Air2 remote-control keys notifications .....	6
3. Installing the Air2 remote-control key .....	7
3.1 Enrolling a wireless device .....	7
3.1.1 Enrolling keys .....	8
3.2 Battery replacement .....	9
4. Programming the Air2 wireless remote-control keys .....	10
5. General information .....	11
5.1 About this manual .....	11
5.2 Manufacturer's details .....	11
5.3 Notes from the Manufacturer .....	11
5.4 Simplified EU Declaration of Conformity .....	11
5.5 Warranty .....	12
5.6 Limited warranty .....	12
5.7 Documents for the users .....	12
5.8 Disposal of the product .....	12

# 1. Description of the Air2 system

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

Description of the Air2 system devices:

- *Air2-BS200/50 transceiver module, 50 terminals*
- *Air2-BS200/30 transceiver module, 30 terminals*
- *Air2-BS200/10 transceiver module, 10 terminals*
- *Air2-KF100/S 4 button remote-control key*
- *Air2-Ergo/S 4 button remote-control key*
- *Air2-Pebble/S 4 button remote-control key*
- *Air2-MC200 magnetic contact with shock and tilt sensor*
- *Air2-MC300 magnetic contact with two I/O terminals*
- *Air2-FD100 smoke detector*
- *Air2-Aria/W keypad with graphic display*
- *Air2-Smarty/W indoor sounder/flasher*
- *Air2-Hedera outdoor sounder/flasher*
- *Air2-DT200T dual technology curtain detector*
- *Air2-XIR200W PIR detector, 12 m*
- *Air2-XDT200W dual technology curtain detector*
- *Air2-UT100 universal transceiver*
- *Air2-ODI100W outdoor wireless dual-infrared detector*
- *Air2-OTT100W outdoor wireless triple-technology detector*

Technical specifications of Air2 system	
<b>Operating frequency</b>	
range	868.0 - 868.6 MHz
selectable channels	868.1, 868.3, 868.5 MHz
<b>RF output power</b>	
	25mW e.r.p.
<b>Communication type</b>	
	Two-way
<b>Modulation</b>	
	GFSK
<b>Device monitoring</b>	
	from 12 to 250 minutes

## Note

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

## 2. Description of Air2 wireless remote-controls

The Air2 remote-control key has 4 buttons which can be programmed from the control panel.

Each button can be associated with a control panel shortcut, which can be activated by pressing the button and is confirmed by a beep from the remote-control buzzer.

### Super keys

If the 'super keys' function is enabled, by pressing and holding the button for at least 2 seconds, until a second beep is heard, you can activate a shortcut different from the one associated with simply pressing the key.

In this way you can have up to 8 different shortcuts on each remote-control key.

---

### Note

*The 'super keys' function is not enabled for all Inim Electronics control panel models.*

---

### Rolling-code authentication

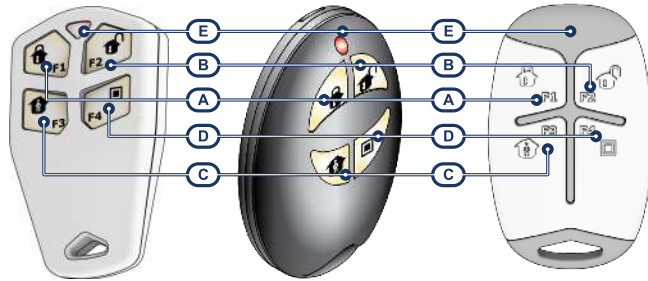
The wireless transmissions of Air2 wireless remote-controls is guaranteed by the use of a rolling-code algorithm. This allows the Air2-BS200 module to check the validity of each wireless keyfob transmission.

If the result of the rolling code is negative, the red confirmation LED (800ms) lights up for a long period.

To reset the transmissions and rolling code it is necessary to press and hold keys 'F3' and 'F4' simultaneously.

The function is active at default but can be disabled during the programming phase. Deactivation can be useful to the installer when the same wireless command device is used on several systems.

## 2.1 Description of parts



[A]	Key1 / F1, LED1 red
[B]	Key2 / F2, LED2 red
[C]	Key3 / F3, LED3 red
[D]	Key4 / F4, LED4 red
[E]	Confirmation LED red/green

## 2.2 Technical specifications of Air2 remote-control keys

Model	Air2-KF100/S	Air2-Pebble/S	Air2-Ergo/S
Battery	Lithium CR2032 3V		
'Low battery' fault voltage	< 2.12V		
Consumption			
during standby	350 nA		
maximum	36 mA		
Buzzer	Multitone		
Operating environmental conditions			
Temperature	from -10 to +40 °C		
Relative humidity	≤ 93 % without condensation		
Security rating	2		
Environmental class	II		
Dimensions (W x H x D)	61 x 41 x 12mm	69 x 42 x 15 mm	72 x 41 x 16mm
Weight	17 g	21 g	25 g
Rubber button cover	2 models: <ul style="list-style-type: none"> <li>• with icons</li> <li>• with number buttons</li> </ul>		
Number of available PIN code combinations	224		



Terminal type	BATTERY	ES1, PS1
---------------	---------	----------

## 2.3 Air2 remote-control keys notifications

Each version of the Air2 wireless remote-control is capable of notifying the user, via confirmation LEDs and a buzzer, of the successful/unsuccessful outcome of any requested operation thanks to two-way data transmission with the Air2-BS200 supervisor.

Push button	LED 1	LED 2	LED 3	LED 4	Buzzer signal	Operation
F1	1 flash				beep	Activates shortcut 1
F2		1 flash			beep	Activates shortcut 2
F3			1 flash		beep	Activates shortcut 3
F4				1 flash	beep	Activates shortcut 4
F1 for 2 seconds	1 flash				2 beeps	Activates shortcut 5 ('super key')
F2 for 2 seconds		1 flash			2 beeps	Activates shortcut 6 ('super key')
F3 for 2 seconds			1 flash		2 beeps	Activates shortcut 7 ('super key')
F4 for 2 seconds				1 flash	2 beeps	Activates shortcut 8 ('super key')
F2 + F3		1 flash	1 flash		beep	Block/Unblock remote-control device
F3 + F4			1 flash	1 flash	beep	Enrolling
Any		3 flashes	3 flashes			Remote-control key locked signal

Panel response	Confirmation LED	Buzzer signal
Command not received	1 red blink	
Operation not done	3 red blinks	bop
Operation done	3 red blinks	long beep

### Low battery

The low battery signal is shown on the operation confirmation LED in yellow (green and red LED simultaneously).

The buzzer signal remains in order to distinguish whether the operation was carried out successfully or was unsuccessful.

## 3. Installing the Air2 remote-control key

The Air2 requires enrolling only.

If it becomes necessary to replace the rubber button cover or battery, work through the following steps:

1. Remove the enclosure screw on the back of the remote-control key and open the device.
2. Remove the rubber button cover.
3. Replace the cover/battery as required.
4. Close the device and replace the enclosure screw.
5. Enroll the remote-control key.

### 3.1 Enrolling a wireless device

The enrolling process allows you to associate an INIM wireless device with the Air2-BS200 transceiver that connects to the anti-intrusion control panel.

This procedure varies depending on the control panel in use and the programming software or application:

1. Access the control-panel programming section.
2. Select the device to be enrolled in accordance with its type:
  - an input terminal, for a detector (motion detector, magnetic contact, etc.)
  - an output terminal, for an output device connected to a terminal of the Air2-MC300 magnetic contact
  - a keypad
  - a sounder/flasher
  - a key, for a remote control device, selecting as the associated reader the one simulated by the transceiver
3. Set the device as 'Wireless'.
4. Start the learning phase from the control panel.
5. Press simultaneously buttons **F3** and **F4** on the remote-control key.

#### 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.

### 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.

### Via keypad

Enrolling of wireless devices is possible by enabling the menu options in the installer menu section:

In this section it is possible to add the device to the configuration or delete it, by means of keys  and .

As soon as the device is enabled it must be configured as 'Wireless':

Once the **OK** button has been pressed, it is necessary to work through the menu options in order to enroll it.

## 3.1.1 Enrolling keys

The key enrolling procedure is carried out in this section:

### Via keypad

Type-in Code (Installer) , PROGRAMMING Keys, Enroll

1. The readers present in the control panel configuration will be shown. Select the reader you want to use for enrolling the keys, then press '**OK**'. If it is a reader simulated by the Air2-BS200, a 'W' will be shown at the end of the description.
2. Select the key you wish to enroll and press '**OK**'.
3. The keypad will indicate the current description of the digital key concerned.
4. Hold the digital key in the vicinity of the reader and then move it away. In the case of a wireless key-fob, press simultaneously keys '**3**' and '**4**'.
5. The keypad you are working on will emit a beep to confirm that the key has been enrolled.

6. The digital key description on the display will pass to the next key automatically. This method (from step '4') allows you to enroll as many digital keys as the system requires.
7. Once all the keys have been enrolled, press the '**Esc**' or '**Canc**' button.

---


### Note

*All the enrolled keys will be enabled to operate the system immediately.*

---

### Delete keys

Type-in Code (Installer), PROGRAMMING Keys, Delete key

This section allows you to delete enrolled digital keys from the system configuration. The enrolled digital keys can be found in the list with the  symbol:

1. Use the 'up' and 'down' buttons to select any enrolled keys you wish to delete.
2. Press the button to delete the key.
3. Press '**OK**' to confirm and exit.



Through an appropriate section of the installer menu it is also possible to delete all the enrolled keys at once. This section can be reached as follows:

Type-in Code (Installer), PROGRAMMING Default settings, Only keysDefault

### Key enablements

Type-in Code (Installer) , PROGRAMMING Keys, Enable/disable

This section allows you to enable/disable the digital keys. These operations are not irreversible:

1. Use the 'up' and 'down' buttons to select the key in question.
2. Use keys  and  to enable/disable the key.
3. Press '**OK**' to confirm and exit.

## 3.2 Battery replacement

When replacing the power supply batteries of the equipment, the installer must use only non-rechargeable lithium batteries compliant with IEC 60086-4 standard.

In the case of battery replacement, it is advisable to press button and at the same time keys **F3** and **F4** in order to ensure that the device is synchronized with the wireless transceiver.





## 4. Programming the Air2 wireless remote-control keys

After enrolling the wireless remote-control devices on the control panel, it is possible to set some parameters during the programming phase.

This is possible by accessing the programming section of the system keys and selecting from them the ones with the 'wireless' attribute. The available parameters are the following:

### Wireless key parameters

Parameter		Software section
<b>Description</b>	This is an editable field for the key name/description.	 Configured keys, selected wireless key
<b>Partitions</b>	This section allows the installer to establish which partitions the key can control.	
<b>Timers</b>	This section allows you to associate a timer with the key in order to filter the operability of the key on a time basis.  In this section it is possible to set up the shortcuts (with any related parameter) that the key will be able to activate when the buttons are pressed: <ul style="list-style-type: none"> <li>• Shortcut 1 - pressing the F1 button</li> <li>• Shortcut 2 - pressing the F2 button</li> <li>• Shortcut 3 - pressing the F3 button</li> <li>• Shortcut 4 - pressing the F4 button</li> <li>• Shortcut 5 - pressing the F1 button for 2 seconds ('super key')</li> <li>• Shortcut 6 - pressing the F2 button for 2 seconds ('super key')</li> <li>• Shortcut 7 - pressing the F3 button for 2 seconds ('super key')</li> <li>• Shortcut 8 - pressing the F4 button for 2 seconds ('super key')</li> </ul>	 Configured keys, selected wireless key, Options
<b>Shortcut</b>		
<b>Patrol</b>	Option that assigns the 'Patrol' attribute to the key.	
<b>Maintenance</b>	The key will be able to block outputs associated with alarm/tamper events for the time that it is held in the vicinity of a reader.	

## 5. General information

### 5.1 About this manual

**Manual code:** DCMIINE0A2KF8E

**Revision:** 111

**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.

### 5.2 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.

### 5.3 Notes from the Manufacturer

The Air2 devices are certified by IMQ-Sistemi di sicurezza (Italian certification body).

The information relating to the power-supply batteries required by Air2 devices is shown in the Technical Specification table that follows.

The manufacturer cannot guarantee the declared battery life.

---

#### **Attention!**

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

---

### 5.4 Simplified EU Declaration of Conformity

Hereby, Inim Electronics S.r.l. declares that the radio equipment type KF100/S, Pebble/S, Ergo/S is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.inim.biz](http://www.inim.biz).

## 5.5 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.

## 5.6 Limited warranty

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

Installation of this Product must be carried out by qualified persons appointed by Inim Electronics. Installation of this Product must be carried out in accordance with Our instructions in the product manual.

## 5.7 Documents for the users

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

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

## 5.8 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.



**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 this 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.







Evolving Security

---

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

Via dei Lavoratori 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)



DCMIINE0A2KF8E-111-20210526