

AIR2

Frequently security professionals perceive the market need for a reliable, truly proficient wireless system. And now, thanks to INIM's perception of installer company needs, that system is available. The first-rate "Air2" wireless system operates over 868MHz band and moreover uses two-way signal transmission technology. This means that all the system devices transmit and receive signals. This two-way transmission technology also means that the traditional receiver has been replaced by a superior device that not only receives but also transmits signals to all the system devices. Therefore, the "Air2" system does not rely on one-way alarm signal transmission, like most wireless systems, but verifies the successful effect of the signal on the target device via a two-way wireless transmission channel. Security professionals will find the innovative operating principles and superior functions of the "Air2" wireless system more than convincing and will surely appreciate the advanced features of the system diagnostics.

The transceiver connects directly to the control panel I-BUS (INIM's peripheral communication bus) and allows fully-integrated management of all wireless and hard-wired devices. INIM's "Air2" high-performance wireless system provides complete protection and in no way lowers security. Choosing "Air2" means reducing installation time to a minimum whilst at the same providing those hard-to-get-to spots with total protection. The "Air2" wireless system can be installed without defacing the structure it protects, and therefore finds its niche in buildings of importance such as churches and museums where extensive structural work would spoil the overall appearance of the building.



Technical features of the system

Operating frequency	868MHz	Modulation	GFSK
Communication type	Two-way	Channel	3

Air2-Aria

Wireless keypad with backlit graphic display



The Aria is a wireless keypad that provides all the functions for full control and management of the SmartLiving system through the Air2 system, which it interfaces with through the Air2-BS200 transceiver. It integrates all the functions present on Concept hardwired keypads and provides a graphic display with user-friendly icons and 4 easy-to-use function keys. The Aria keypad is equipped with both a wall and table mounting bracket which allow this versatile device to blend neatly with all types of furnishing solutions. Its elegant design allows it to be located on view on a table or shelf. Its accelerometer provides both anti-tamper and "wakeup" from standby functions, while the brightness sensor adjusts the display and key brightness in accordance with the surrounding ambient. Additionally, it has an automatic shutdown function in the event it is moved out of wireless range. It is important to note that the battery has a two year life. The Aria is also equipped with a connector that allows, if required, hardwired power-up.

Features of the wireless Air2-Aria keypad

Communication with Air2-BS200 transceiver	Two-way
Backlit graphic display	Yes
Easy4U icon interface	Yes
Programmable backlight in operation	Yes
Anti-glare sensor	Yes
4 signal LEDs	Yes
Signal buzzer	Yes
Protection	Anti-opening and anti-dislodgement protection
Accelerometer controlled "wakeup" function	Yes
Mounts to "503" box	Yes
Table bracket	Yes
Optional 6-20 Vdc power-supply connector	Yes
Battery	CR17450 (2)
Battery life	2 years
Dimensions (HxWxD):	114x139x24 mm
Weight	275 g

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Air2-Aria/B: wireless keypad with graphic backlit display for management of SmartLiving system, in white.

Air2-Hedera

Wireless outdoor sounderflasher



The Hedera outdoor sounderflasher is especially designed to ensure trouble-free installation and fast programming. It provides numerous programming options for the sounder, the flasher, maximum alarm time, flash rate per minute, signal activation mode, etc. The Hedera sounderflasher interfaces with Smartliving control panels via the Air2-BS200 transceiver through which it is controlled and managed by the control panel. This greatly simplifies programming and permits the activation of distinctive signals for the different events, whose respective parameters can be directly programmed from the control panel. The control panel, via the Air2 system, is capable of supervising tamper, low battery and fault signals and also the battery level. The self-diagnostics provided by the Hedera allow fast detection of eventual faults. During the installation phase it is also possible to select a specific signal for wireless reception loss. The super bright LED flasher offers long autonomy and reduced power consumption and has two ancillary signal LEDs. The battery has a life span of 4 years. The sounderflasher is protected against dislodgement-tamper, open-tamper and foam-tamper, achieved through dual path infrared detection inside the sounder with high immunity to false alarms. The Hedera is also available in a "metal look" version.

Features of the Air2-Hedera wireless Sounderflasher

Communication with Air2-BS200 transceiver	Two-way
Separate sound and flasher management	Yes
Volume adjustment	Yes
Protections	Anti-opening and anti-dislodgement; anti-foam
Metal inner-shroud	Yes
LED signal flasher	Yes
Parameter programmable from device	Yes
Sound pressure at 1m.	103dBA
Protection Grade	IP34
Battery	ER34615M
Battery life	4 years
Dimensions (HxWxD):	288x207x106 mm
Weight	2.3 Kg

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Air2-Hedera-F: outdoor wireless sounderflasher with antifoam protection.

Air2-Hedera-FM: outdoor wireless sounderflasher with antifoam protection, metal look.



Air2-BS200

Air2-BS200

Wireless transceiver with I-BUS interface for connection to control panels from the SmartLiving series. The Air2-BS200/50 is capable of managing 50 field devices (detectors and magnetic contacts) and 100 KF100 wireless keyfobs, whereas the Air2-BS200/30 is capable of managing 30 field devices and 50 wireless keyfobs, and the Air2-BS200/10 is capable of managing 10 field devices and 30 wireless keyfobs. The Air2-BS200 is also capable of managing up to 4 Aria keypads and 4 Hedera sounderflashers. Each field device can be mapped on one of the terminals available on the control panel in the same way as each keyfob can be mapped on one of the SmartLiving tags.

Technical features of the AIR2-BS200 Transceiver

Wireless transmission	Two-way
Control panel connection	4 wires via the I-BUS
Manageable wireless field devices (magnetic contacts or detectors)	50 (Air2-BS200/50), 30 (Air2-BS200/30), 10 (Air2-BS200/10)
Manages wireless signals (inputs and outputs)	50 - simulates up to 10 Flex5 expansion boards(Air2-BS200/50) 10 - simulates up to 10 Flex5 expansion boards(Air2-BS200/10)
Wireless keys supported (KF100)	100 (Air2-BS200/50), 50 (Air2-BS200/30), 30 (Air2-BS200/10)
Manageable Keypads (Aria) and Sounderflashers (Hedera)	4
Device mapping to control panel	On terminals
Wireless key mapping to control panel	On tag and card
Protections	Dislodgement and open cover
Supervision	Wireless-programmable Supervision Time
Dimensions (HxWxD)	171x80x27mm
Weight	130g

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Air2-BS200/50: transceiver 868MHz, connects to I-Bus, manages up to 50 detectors, up to 100 wireless keyfobs.

Air2-BS200/30: transceiver 868MHz, connects to I-Bus, manages up to 30 detectors, up to 50 wireless keyfobs.

Air2-BS200/10: transceiver 868MHz, connects to I-Bus, manages up to 10 detectors, up to 30 wireless keyfobs.



Air2-DT200T

Air2-DT200T

The Air2-DT200T is a wireless curtain PIR detector that thanks to the combination of two sensors and digital signal analysis provides precision sensing and tracking of motion in the protected area. The use of dual technology provides the highest sensitivity available whilst virtually eliminating false alarms. The temperature compensation feature allows the detector to adapt to almost all types of ambient conditions. The shock and tilt sensor protects the device against attempts to remove or open the detector enclosure, whilst the anti-masking function detects any kind of interference. The Air2-DT200T is particularly suitable for the protection of doors and windows and is advised for professional outdoor applications. DT200T is available in brown or white.

Technical features of the AIR2-DT200T Curtain detector

Communicates with Air2-BS200 transceiver	Two-way
Digital signal analysis	Yes
Cover	3m
Protection	Anti-masking and inert-tamper protection
Motion tracking	Yes
Microwave frequency	K Band
Temperature compensation	Yes
Bypassable LED	Yes
Pulse counter	Yes
Battery	CR17450
Battery life	3 years
Dimensions (LxWxD)	140x40x32
Weight	93g

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Air2-DT200T/B: Wireless dual technology curtain detector with anti-masking function. Colour White.

Air2-DT200T/M: Wireless dual technology curtain detector with anti-masking function. Colour Brown.



Air2-XIR200W
Air2-XDT200W

Air2-XIR200W/Air2-XDT200W

The Air2-XIR200W and Air2-XDT200W are the INIM's XLine series wireless volumetric motion detectors, and are especially suitable for professional indoor applications. Air2-XIR200W is a passive infrared detector (PIR). Its technology is based on digital signal analysis, a dual pyroelectric element capable of detecting infrared radiation and an innovative signal filter. It provides precision motion sensing in the protected area and, thanks to the programmable pulse count feature, high false alarm immunity. The temperature compensation feature allows the detector to adapt to the conditions of its environment, while the shock and tilt sensor protect it against tamper attempts. Air2-XDT200W has the same design features but is a dual technology detector (microwave and PIR). Also in this case, precision motion sensing, temperature compensation and shock and tilt protection are assured, as are the reliability and high false alarm immunity provided by the combination of dual technology and the pulse count feature. The security measures included in the Air2-XDT200W are completed by the anti-masking function made available by the microwave sensor. The XLine series wireless detectors can be used in a vast range of residential and commercial applications, providing solutions for every type of installation.

Technical features	Air2-XIR200W	Air2-XDT200W
Communicates with Air2-BS200 transceiver	Two-way	Two-way
Digital signal analysis	Yes	Yes
Cover	12m	8m
Protection	Anti-opening and anti-dislodgement protection	Impact tamper; anti-masking function mw
Shock and tilt sensor	Yes	Yes
Temperature compensation	Yes	Yes
Bypassable LED	Yes	Yes
Pulse counter	Yes	Yes
Battery	CR17450	CR17450
Microwave frequency	-	K Band
Battery life	3 years	3 years
Dimensions (LxWxD)	120x60x44	120x60x44
Weight	98g	102g

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Air2-XIR200W: Wireless digital PIR detector 12m volumetric coverage.

Air2-XDT200W: Wireless digital dual technology detector 8m volumetric coverage.



Air2-IR100

Air2-IR100

Two-way communication PIR detector. This device is protected against dislodgement and open-cover tamper, and allows sensitivity adjustment from remote with no direct intervention on the detector. This device provides an option which allows you to disable the detection LED. It also provides an option which allows you to enable device operation only when the partition it belongs to is armed, thus greatly saving battery power. The detector is available in two models. Air2-IR100 is a 12m volumetric detector, Air2-IR100C is a 20m corridor detector.

Technical features of the AIR2-IR100 Infrared detector

Communication with transceiver Air2-BS200	Two-way
Protections	Dislodgement and open cover
PIR range	12m volumetric (Air2-IR100), 20m corridor (Air2-IR100/C)
Battery	CR123A
Battery life	3 years
Dimensions (HxWxD)	100x58x44
Weight	80g

ORDER CODES

Air2-IR100: infrared detector (two-way) 12m volumetric coverage.

Air2-IR100/C: infrared detector (two-way) 20m corridor coverage.



Air2-UT100

Air2-UT100

The UT100 is useful in applications that require the transmission of wireless signals from a generic source to the SmartLiving control panel. The UT100 has a normally closed input that transmits a wireless alarm signal when it becomes unbalanced. And, provides an additional normally closed input for the connection of tamper contacts.

The UT100 is equipped with a bypassable inertial tamper protection. If the device is moved or disturbed it will send a tamper signal to the Air2-BS200 transceiver that will then be forwarded to the SmartLiving control panel.

The board is capable of powering external devices @3V through an appropriate power output. If external loads are applied, it is necessary to take into account the extra current draw when gauging the battery life. The UT100 is an extremely practical device that is particularly suited for perimeter protection. Hardwiring perimeter devices to carry alarm and tamper signals to the control panel is both time-consuming and costly, the UT100 is the perfect solution. Alarm and tamper signals carried from perimeter protection devices to a UT100 will be transmitted to the control panel by wireless transmission.

Technical features of the AIR2-UT100 Universal transceiver

Communicates with Air2-BS200 transceiver	Two-way
Alarm input	1
Tamper input	1
Power output	3V
Protection	Shock and tilt protection
Batteries	CR17450 (2)
Battery life	4 years
Dimensions (LxWxD)	20x100x40mm
Weight	24g

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Air2-UT100: Universal wireless transceiver



Air2-OTT100W / Air2-ODI100W

Air2-OTT100W and Air2-ODI100W

Air2-OTT100W and Air2-ODI100W are wireless detectors suitable for outdoor installations. OTT100W is an intelligent triple technology detector combined microwave and infrared with excellent immunity to false alarms. ODI100W is a dual technology infrared detector. Both devices are equipped with a horizontal range adjustment mechanism which also permits micrometric adjustment of the lower beam and provides, by means of the selection of the operating-mode, advanced signal processing with impressive catch performance and excellent immunity to false alarm sources such as pets. Besides the anti-opening and anti-dislodgement protections the OTT100W and ODI100W include a vibration and tilt sensor for high-level protection against tamper attempts. The heavy-duty casing in polycarbonate has IP44 grade protection and is equipped with a UV ray resistant Fresnel lens. The vast range of adjustment possibilities provide these wireless detectors with high flexibility and reliability and ensure they are capable of responding to the various protection requirements of outdoor installations.

Technical features of the AIR2-OTT100W and AIR2-ODI100W Outdoor detectors

Communicates with Air2-BS200 transceiver	Two-way
Digital signal analysis	Yes
Protection range	3÷12m
Horizontal cover	60°
Protection	Anti-dislodgement and anti-opening; shock/tilt sensor
Bypassable LED	Yes
Protection Grade	IP44
Battery	CR17450 (2)
Battery life	4 years
Dimensions (LxWxD)	189x70x100
Weight	450g

ORDER CODES

Air2-OTT100W: Wireless triple technology detector for outdoor use.

Air2-ODI100W: Wireless dual PIR detector for outdoor use.



Air2-KF100

Air2-KF100

By means of a two-way transmission channel with the monitoring software, the KF100 remote control is capable of producing a visual feedback signal on its LED indicator. It has 4 control buttons which can be programmed through the control panel. This remote-control device also allows the user to arm/disarm the intrusion control system and open/close a gate or turn On/Off lights, it also provides an audible feedback signal indicating the successful outcome of requested operation. The KF100 provides a "lock keyfob" option which protects the keyfob against accidental operations.

Technical features of the AIR2-KF100 Wireless key

Communication with transceiver Air2-BS200	Two-way
Buttons	4
Buttons functions	Programmable as control-panel shortcuts (arm, disarm, bypass, output activation, etc.)
Notifier LED	6, for command executed signals
Signalling Buzzer	Multitone
Loch keyfob	Yes
Battery	CR2032
Battery life	5 years
Dimensions (HxWxD)	61x41x12mm
Weight	15g

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Air2-KF100: wireless key (two-way) with 4 programmable buttons.



Air2-MC100

Air2-MC100

Defining this device as a magnetic contact is somewhat reductive. Besides providing two positions for the magnet, 90 degrees one from the other for device placement optimization, the MC100 magnetic contact provides 2 terminals which can be configured individually as input or output terminals. Configuring the terminals as inputs provides standard zone management (NO, NC, Single Balancing; Double Balancing), and also allows direct connection of shock and rollerblind detectors. Configuring the terminals as outputs grants access to a 50mA open-collector output. Alarms deriving from the magnetic contacts, and distinctly from the 2 terminals, will be signalled separately on the control panel. This device provides an option which allows you to change the "unused" magnetic contact (of the two present on the device) into a magnetic tamper protection. In this way, it will be capable detecting tamper attempts using magnets. This device is protected against dislodgement and open-cover tamper and is available in brown or white.

Technical features of the AIR2-MC100 Magnetic contact

Communication with transceiver Air2-BS200	Two-way
Protections	Dislodgement and open cove
Magnetic contacts	2 @ 90° can be used individually or as a pair
Terminals	2 configurable individually as input or output
Terminal balancing managment	NO, NC, Single balancing, Double balancing
Rollerblind and shock detector management	Yes, on both terminals
Alarm signalling channels	Alarm signalling separate for magnetic contact, first terminal and second terminal
Colours	White and brown
Battery	CR123A
Battery life	4 years
Dimensions (HxWxD)	95x36x26mm
Weight	80g

ORDER CODES

Air2-MC100B: magnetic contact (two-way) with 2 inputs/outputs (wireless expansions). White.

Air2-MC100M: magnetic contact (two-way) with 2 inputs/outputs (wireless expansions). Brown.

Air2-MC200



Air2-MC200

The Air2-MC200 is a wireless magnetic-contact which integrates a tilt and shock sensor. The latest micro-electromechanical technology allows this device to provide extreme programming flexibility, accurate detection and a high rate of reliability. In fact, both tilt and shock detection can be precisely programmed to the specific needs of the installation. The tilt sensor detects tamper on the object it is firmly fixed to and is particularly suited to overhead and awning windows, thus avoiding the use of magnets. The Air2-MC200 is protected against tamper attempts and forced removal. Air2-MC200 uses separate channels for the different types of signaling and therefore allows the clear identification of the source of the alarm. The reduced size of this device allows simplified installation and maintenance.

Main features of the Air2-MC200

Communication with Air2-BS200 transceiver	Two-way
Protections	Dislodgement and open cover
Magnetic contacts	1
Tilt and Shock sensor	1
Alarm signaling channels	Separate for the magnetic sensor, tilt/shock sensor and tamper
Shock sensor sensitivity	16 programmable levels
Tilt sensor sensitivity	Programmable with a maximum angle of less than 5 degrees
Tilt delay signal	Programmable from 100ms to 2 minutes
Colours	White and Brown
Battery	CR2
Battery life	4 years
Dimensions (HxWxD)	58x35x23 mm
Weight	50 g

ORDER CODES

Air2-MC200B: wireless magnetic contact with integrated tilt and shock sensor. Colour White.

Air2-MC200M: wireless magnetic contact with integrated tilt and shock sensor. Colour Brown.

Air2-FD100



The Air2-FD100 smoke detector allows you to add advanced smoke-detection capabilities to the SmartLiving control panel. This device greatly enhances the capacity of any home security system. Air2-FD100 provides unique features. In fact, it can verify the level of contamination (dust) inside the optical chamber and signal the need for cleaning. The analogue values regarding the level of contamination in the optical chamber are shown on the keypad. The state-of-the-art detection technology used in the Air2-FD100 is typical of the technology-driven environment of INIM's entire range of fire detection devices. This technology provides you with 4 programmable levels of smoke-detection sensitivity (0.08dB/m to 0.15dB/m). The Air2-FD100 is equipped with a tricolour LED (green, yellow and red) which signals the normal operating status of the device, low battery status, contamination in the optical chamber, alarm and fault conditions. This device provides an option which disables the visual signals on the LED. You can configure all the device parameters via the wireless network without the need for direct intervention on the device itself.

AIR2-FD100 smoke-detector features

Communicates with the Air2-BS200	Two-way transceiver
Protected against dislodgements	From its base
4 programmable levels of sensitivity	0.08dB/m (pre-set mode); 0.10dB/m; 0.10dB/m; 0.10 dB/m
Tricolour signalling LED	Normal operating status, fault, contamination in the optical chamber, low battery, alarm
Option	To disable LED signalling
Battery	CR17450
Battery life	3 year
Dimensions (HxDxW)	60x114mm (with base)
Weight	160g (with base and without battery), 182g (with base and battery)

ORDER CODES

Air2-FD100: two-way wireless smoke detector for SmartLiving systems