



Air2-DT200T

INDOOR WIRELESS COMBINED PASSIVE INFRARED AND MICROWAVE CURTAIN DETECTOR FOR INTRUSION ALARM SYSTEMS

The Air2-DT200T passive infrared and microwave curtain detector is perfect for professional use in various types of wireless outdoor applications.

Digital signal processing (DSP), a dual pyroelectric PIR element and a microwave sensor provide the Air2-DT200T with a perfect combination of high sensitivity and an ultra-low false alarm rate. The powerful combination of digital signal processing and the latest extremely-stable signal amplification and filtering technology allows this device to respond efficiently to intrusion in the protected area and to deliver superior catch performance and precision.

DSP technology provides temperature compensation for perfect operation in the protected area.

The Air2-DT200T is capable of signalling an alarm after detecting intruder motion in the protected area and also of determining the direction of the motion.

The device has an inertial sensor for protection against displacement or tilt and an anti-masking capability which signals when its view is blocked.

Thanks to the capabilities of innovative wireless technology, is suitable for a vast range of residential and commercial applications.

The Air2-DT200T detector is supervised by the "Air2" two-way system and Inim's SmartLiving intrusion control panel which, when duly programmed, provides flexible solutions for all types of installations.

MAIN FEATURES

The main features of the Air2-DT200T are:

- Digital analysis of signals
- Detection range 3m
- Detection angle 70°
- Bypassable alarm LED
- Automatic temperature compensation
- Motion direction detection
- Sensor sensitivity adjustment
- Bypassable sensors
- Pulse count
- Anti-opening and anti-dislodgement protection
- Movement and tilt tamper
- Anti-masking protection

DETECTOR'S TECHNICAL SPECIFICATIONS

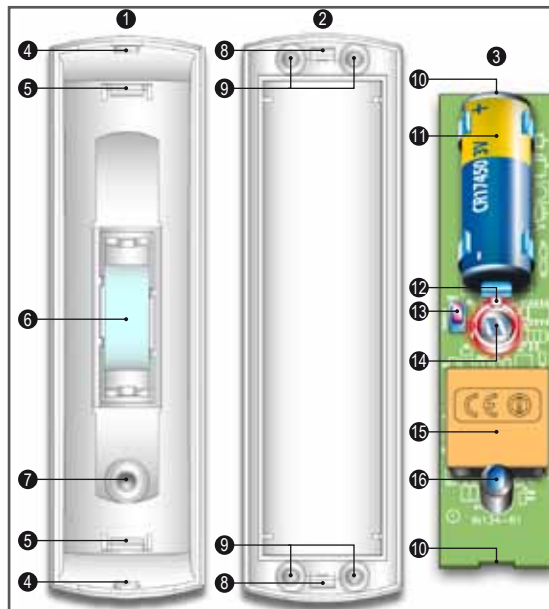
Battery	Lithium CR17450 3V (included)	Alarm signal minimum duration	5s
Battery life	3 years	Alarm pulses	from 1 to 2
"Low battery" fault voltage	less than 2.4V	Detection range	3m
Stand-by current draw	30µA	Detection angle	70°
Maximum current draw	30mA	Installation method	ceiling mount
Sensor type	digital dual PIR, microwave module	Environmental conditions	from -10 to +55°C, ≤93%
MW frequency	24.125GHz	Size (HxWxD)	140x40x32mm
		Weight	93g

"AIR2" INTERFACE TECHNICAL SPECIFICATIONS

Operating frequency	868.6MHz	Detector supervision	from 12 to 120 min
Communication type	two way	Security grade	2
Modulation	GFSK	Environmental class	II
Channels	3		

GENERAL VIEW

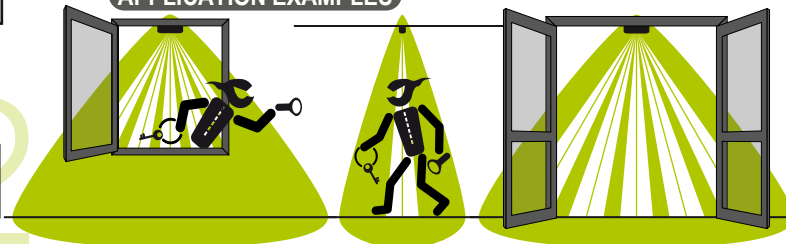
- Cover (back)
- Base
- PCB
- Cover retaining screw location
- PCB retainer
- Lens
- Anti-masking sensor housing
- Cover retainer
- Mounting screw location
- PCB retainer location
- Battery
- LED light guide
- ENROLL button
- PIR sensor (infrared)
- MW sensor (microwave)
- Anti-masking sensor



OPERATING PRINCIPLES

- If a person crosses the protected area and both sensors (PIR and MW) detect motion, the device LED will blink and trigger a 5 second (minimum) alarm signal.
- The PIR detector is capable of determining the direction of motion within the protected area and sends the respective signal, together with the alarm signal, to the control panel for logical identification. Both signals therefore require distinct processing by the control panel.
- The anti-mask signal starts if an object is blinding the detector below a maximum distance (to be programmed) and for a period exceeding 5 seconds. The signal stops when stand-by conditions are restored.
- The Air2-DT200T is protected with open and dislodgement tamper by integrated sensor that senses for tilting
- The temperature in the protected area influences the performance of the PIR sensor. The MW sensor detection is influenced by moving or vibrating objects.
- During the device programming phase, it is possible to adjust the operating sensitivity or disable the following functions:
 - PIR sensing
 - MW sensing
 - tilt sensing
 - anti-masking
- The Air2-DT200T can be programmed from the SmartLiving control panel:
 - via the keypad after accessing the programming menu
 - through the SmartLeague software program after opening a SmartLiving solution and working on the respective system parts and parameters

APPLICATION EXAMPLES



INSTALLATION

- Choose a suitable mounting placement (e.g. a door or a window).
- Pull the cover away from the base.
- Push apart the card retainers and remove the PCB.
- Open the anchor-screw holes.
- Hold the base to the chosen mounting placement and mark the screw holes position.
- Attach the adhesive sponge (provided) to the rear side of the base.
- Using the screws, secure the base in position.

Notes:

- Do not drill in the vicinity of electrical wiring or plumbing, etc.
 - The detector should be located in place that is far from sources of interference, such as: reflective surfaces, direct air flow, air-conditioning systems, steam, oil vapour, infrared sources, power lines and appliances which may cause temperature changes (heaters, ovens, refrigerators, etc.).
 - Ensure that the detector Air2-DT200T is placed in a location well protected against rain and bad weather.
 - Do not blind the field of detection of the sensor, even partially.
- Insert the battery, ensure you respect the proper polarity.
 - Carry out the enrollment procedure for alarm signalling.
 - If direction signalling is required, carry out the respective procedure.

For details of the enrolling phase, refer to the manual of the AIR-BS100 transceiver.

Notes:

- Configure the Air2-DT200T on the control panel as "DOUBLE ZONE" input terminal, for both the motion alarm and motion direction signals.
- Fit the PCB back into its retainers. Take care to ensure that the anti-masking sensor is positioned correctly in its housing by fitting the PCB in place first by the side opposite to the sensor.
 - Attach the front of the device enclosure and fasten the securing screw into its hole.
 - Complete the programming process and adjust the operating sensitivity.

WARNING

- This detector must be installed in compliance with the laws and standards in force.
- Do not touch the electronic components as this may damage the circuits and reduce the reliability of the detector. If necessary, clean the detector with a soft cloth only.
- Do not install the detector in locations where there is risk of rapid temperature changes.
- Install the detector strictly in accordance with the instructions in this leaflet.
- The device should be tested on a regular basis.

DECLARATION OF CONFORMITY

Lietuvių: Šiuo Inim Electronics s.r.l. deklaruojame, kad šis Air2-DT200T atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
English: Hereby, Inim Electronics s.r.l., declares that this Air2-DT200T is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Nederlands: Hierbij verklaart Inim Electronics s.r.l. dat het toestel Air2-DT200T in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Norsk: Inim Electronics s.r.l. erklærer herved at utstyret Air2-DT200T er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.
Polski: Niniejszym Inim Electronics s.r.l. deklaruje że Air2-DT200T jest zgodny z zasadniczymi wymaganiami i innymi właściwymi postanowieniami Dyrektywy 1999/5/EC.
Português: Eu, Inim Electronics s.r.l., declaro que o Air2-DT200T cumpre os requisitos essenciais e outras provisões relevantes da Directiva 1999/5/EC.
Română: Prin prezenta, Inim Electronics s.r.l., declară că aparatul Air2-DT200T este în conformitate cu cerințele esențiale și cu alte prevederi pertinente ale Directivei 1999/5/CE.
Svenska: Denna utrustning är i överensstämmelse med de väsentliga kraven och andra relevanta bestämmelser i Direktiv Försäkran om över 1999/5/EC.
Slovenski: Inim Electronics s.r.l. izjavlja, da je ta Air2-DT200T v skladu z bistvenimi zahtevami in drugimi relevantnimi določili direktive 1999/5/ES.

The declaration of conformity may be consulted at www.inim.biz/certifications