APMD-250

WIRELESS DUAL–TECH MOTION DETECTOR

The **APMD–250** wireless detector operates as part of the **ABAX 2**/**ABAX** two–way wireless system. The device is certified for compliance with the requirements of EN 50131 Grade 2.

For motion detection, **APMD–250** uses two types of sensors: infrared (PIR) and microwave (MW). The detector has a modern wide angle lens. It can be replaced with the curtain lens (**CT–CL**) or long–range lens (**LR–CL**). An adjustable mirror is used so as to also protect the detector's creep zone. Advanced digital signal processing as well as dynamic compensation of changes in ambient temperature are applied in the device. **APMD–250** supervises the motion detection system and indicates possible faults in its operation. The detector is characterized by high immunity to false alarms.

Configuration of **APMD–250** and updating of its firmware are carried out remotely. Radio communication within the **ABAX 2** system is encrypted using is AES encrypted.

The detector is powered by a CR123A 3 V battery, whose status is monitored in real time. The device is characterized by low energy consumption and the "ECO" option (available in **ABAX 2** only) enables the device operation time to be extended up to four times without battery replacement.

The LED indicator signals violations in the test mode, thus facilitating the testing process of the detector.

The device can be mounted on an adjustable ceiling/wall bracket. The detector has tamper protection against opening and removal from the mount.

- certificate of compliance with the EN 50131 requirements for Grade 2
- two detection paths: PIR (double pyroelement) and microwave
- independently adjustable sensitivity of PIR and MW paths
- modern wide angle lens
- detection area 15 m x 24 m, angle 90°
- optional lens replacement with the curtain lens (**CT–CL**) or long–range lens (**LR–CL**)
- advanced digital signal processing
- dynamic compensation of temperature changes in the protected premises
- high immunity to false alarms
- option to enable/disable the creep zone control
- compatible with:
  - **ABAX 2** system controllers (**ACU–220** and **ACU–280**) and **ARU–200** radio signal repeater
  - **ABAX** system controllers (**ACU–120**, **ACU–270**, **ACU–250** and **ACU–100** (min. version 4.04), **INTEGRA 128–WRL** control panel and **ARU–100** radio signal repeater – the required version of the device firmware should be checked in its description on the website
- range of radio communication in the open area:
  - in **ABAX 2**: up to 2000 m (with **ACU–220**) / up to 1600 m (with **ACU–280**)
  - in **ABAX**: up to 500 m
- remote configuration and updating of the firmware
- built–in temperature sensor (temperature measurement from –10°C to +55°C)
- LED indicator of violations in test mode
- low energy consumption and battery status check
- "ECO" option for extending battery life (in **ABAX 2** only)
- power supply: CR123A 3 V battery

The actual appearance of the products may differ from the presented images. Product descriptions are provided in the web service for information purposes only.

- tamper protection against opening of the enclosure / removal from the mount
- adjustable bracket for wall–mounting or ceiling–mounting

TECHNICAL DATA

Battery working time (in years)	up to 2
Detected target velocity	0,3...3 m/s
Operating temperature range	-10°C...+55°C
Recommended mounting height	2...2,4 m
Max. current consumption	13 mA
Weight	152 g
Maximum humidity	93±3%
Operating frequency band	868,0 ÷ 868,6 MHz
Battery	CR123A 3V
Standby current consumption	75 µA
Dimensions	62 x 137 x 42 mm
Environmental class according to EN50130-5	II
Complied with standards	EN50131-1, EN50130-4, EN50130-5
Temperature measurement accuracy	±1°C
Microwave frequency	24,125 GHz
Warm-up period	40 s
Radio communication range (in open area) for ACU-120	up to 500 m
Radio communication range (in open area) for ACU-270	up to 500 m
Radio communication range (in open area) for ACU-220	up to 2000 m
Radio communication range (in open area) for ACU-280	up to 1600 m
Temperature measurement range	-10°C...+55°C
Detection area	15 m x 24 m, 90°
Security grade according to EN50131-2-4 (detector mounted directly to the wall)	Grade 2

The actual appearance of the products may differ from the presented images. Product descriptions are provided in the web service for information purposes only.