

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 meets the EN 50131 requirements for Grade 2.

For motion detection, **APMD-250** uses two types of sensors: infrared (PIR) and microwave (MW). The detector has a modern lens that ensures optimal distribution of IR beams. 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 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 lens with optimal beam distribution
- 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** and **ACU-270**), **INTEGRA 128-WRL** control panel and **ARU-100** radio signal repeater
- 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
- tamper protection against opening of the enclosure / removal from the mount



- adjustable bracket for wall-mounting or ceiling-mounting

TECHNISCHE DATEN

Lebensdauer der Batterie (in Jahren)	bis 2
Erfasste Bewegungsgeschwindigkeit	0,3...3 m/s
Betriebstemperatur	-10°C...+55°C
Empfohlene Montagehöhe	2...2,4 m
Max. Stromaufnahme	13 mA
Gewicht	152 g
Max. Luftfeuchtigkeit	93±3%
Betriebsfrequenzband	868,0 ÷ 868,6 MHz
Batterie	CR123A 3V
Ruhestromaufnahme	75 µA
Abmessungen	62 x 137 x 42 mm
Umweltklasse gem. EN50130-5	II
Erfüllte Normen	EN50131-1, EN50130-4, EN50130-5
Genauigkeit der Temperaturmessung	±1°C
Mikrowellenfrequenz	24,125 GHz
Anlaufzeit	40 s
Funkreichweite (im Freifeld) für ACU-120	bis 500 m
Funkreichweite (im Freifeld) für ACU-270	bis 500 m
Funkreichweite (im Freifeld) für ACU-220	bis 2000 m
Funkreichweite (im Freifeld) für ACU-280	bis 1600 m