

AOD-210

OUTDOOR WIRELESS DUAL-TECH MOTION DETECTOR

The **AOD-210** detector is designed for operation as part of the **ABAX 2/ABAX** two-way wireless system, both outside as well as inside protected premises, where special environmental conditions prevail (e.g. halls). The detector complies with the EN 50131 Grade 2 requirements (for indoor use).

The use of two detection paths (PIR + MW), combined with advanced digital signal processing and dynamic temperature compensation, ensures effective motion detection. The device can also be used for protection of the creep zone, as well as for implementation of the Pet function i.e. immunity to movement of pets (up to 20 kg). **AOD-210** supervises the motion detection system and indicates possible irregularities in its operation. The detector is characterized by high false alarm immunity.

AOD-210 has built-in temperature and dusk sensors (with adjustable sensitivity), which allow it to be used in alarm systems that include home automation, without having to install additional solutions. LED indicators show violations in the test mode, thus facilitating the detector testing process.

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

The detector has a polycarbonate enclosure (protection rating IP54), on which a protective cover can be mounted: **HOOD C** (white) or **HOOD C GY** (gray). Design of the **AOD-210** detector allows it to be mounted directly on a flat surface. If the device is to be tilted vertically or horizontally, special angle-type or ball-type mounts must be used, included in the **BRACKET C** (white) or **BRACKET C GY** (gray) set. The detector is provided with tamper protection against opening of enclosure and removal from the mount.

The device is powered by a CR123A 3 V battery. It is characterized by low energy consumption, and the "ECO" mode (available in **ABAX 2** only) additionally extends the detector operation time even fourfold.

AOD-210 is available in two color versions: white (**AOD-210**) and gray (**AOD-210 GY**).

- compliance with the EN 50131 Grade 2 requirements (for indoor use)
- two detection paths: PIR (double pyroelement) and microwave
- detection area 16 m x 16 m, angle 90°
- high immunity to false alarms
- advanced digital signal processing
- dynamic compensation of temperature changes
- creep zone control
- built-in dusk sensor
- remote configuration and updating of the firmware
- 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
- built-in temperature sensor (temperature measurement from -40°C to +55°C)



- independently adjustable sensitivity of PIR and MW paths and dusk sensor
- three LED indicators of violations in the test mode
- immunity to the movement of pets (up to 20 kg)
- splash-proof, weather-resistant polycarbonate enclosure with IP54 protection rating
- low energy consumption and battery status check
- "ECO" option for extending battery life (**ABAX 2** only)
- power supply: CR123A 3 V battery
- can be mounted directly on flat surface or, optionally, using the **BRACKET C** mounts:
 - angle-type bracket: fixed angle 45°
 - ball-type bracket: adjustable up to 60° vertically and up to 90° horizontally
- tamper protection against opening of the enclosure / removal from the mount
- **HOOD C** protective cover can be optionally mounted on the enclosure

TECHNISCHE DATEN

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| Lebensdauer der Batterie (in Jahren) | bis 2 |
| Erfasste Bewegungsgeschwindigkeit | 0,3...3 m/s |
| Betriebstemperatur | -40 °C...+55 °C |
| Empfohlene Montagehöhe | 2,4 m |
| Max. Stromaufnahme | 30 mA |
| Gewicht | 182 g |
| Max. Luftfeuchtigkeit | 93±3% |
| Betriebsfrequenzband | 868,0 ÷ 868,6 MHz |
| Batterie | CR123A 3V |
| Ruhestromaufnahme | 75 µA |
| Abmessungen | 65 x 138 x 58 mm |
| Umweltklasse gem. EN50130-5 | IIla |
| Erfüllte Normen | EN50131-1, EN50130-4, EN50130-5 |
| Genauigkeit der Temperaturmessung | ±1 °C |
| Mikrowellenfrequenz | 24,125 GHz |
| Sicherheitsgrad gem. EN50131-2-4 | Grade 2 |
| Anlaufzeit | 40 s |
| IP-Schutz | IP54 |
| 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 |