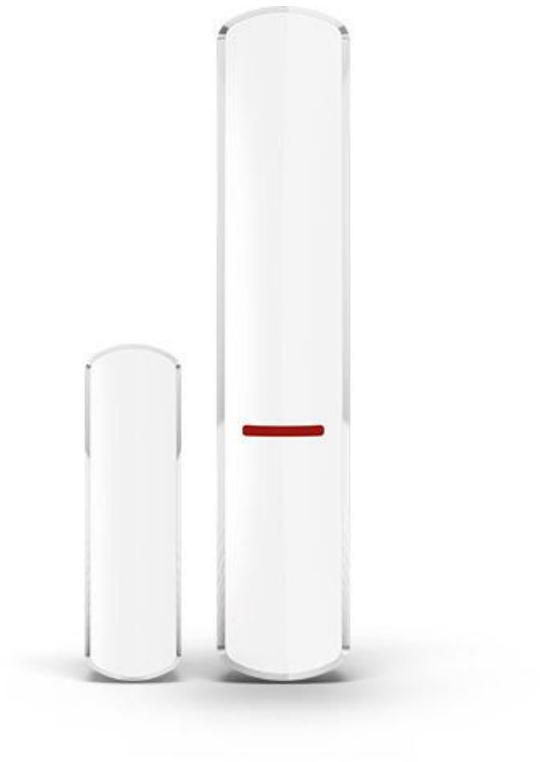
AXD-200

WIRELESS MULTIPURPOSE DETECTOR

AXD–200 is a multifunction device operating as part of the **ABAX 2**/**ABAX** two–way wireless system. It meets the EN 50131 Grade 2 requirements.



The device can work in one of several available modes as a magnetic contact, dual channel magnetic contact (with an additional mode as a 2x NC hardwired zone expander), magnetic contact with input for roller shutter detector (featuring an additional mode as a NC and roller shutter hardwired zone expander), shock detector and magnetic contact, reorientation, temperature or flood detector.

You can change its operating mode by:

- knocking appropriately on the detector enclosure. This is done before registering the device in a system
- choosing its operating mode while registering the device in a system using DLOADX or ABAX 2 Soft

Description of operating modes

- Magnetic contact / dual channel magnetic contact / magnetic contact with input for roller shutter detector
  - detection of opening of a door, window, etc.
  - input for control of an NC type wire detector
  - additional digital channel for control of a wired detector (two–channel magnetic, magnetic with roller shutter input)
  - input for control of a wired roller shutter detector (detector with roller shutter input)
  - option to work as a hardwired zone expander: 2x NC (ABAX 2 only)
  - o option to work as a hardwired zone expander: NC and roller shutter (ABAX 2 only)
- Shock detector and magnetic contact
  - detection of shocks and vibrations associated with attempts to force a door or window
  - detection of opening of a door, window, etc.
  - input for control of an NC type wire detector
  - option to disable the internal magnetic sensor
  - adjustment of detection sensitivity
- Reorientation detector
  - detecting a change in position of an object
  - individual protection of valuable items
- Temperature detector
  - temperature measurement in the range from –10°C to + 55°C
  - two programmable temperature thresholds (upper and lower)
- Water flood detector
  - detection of water leakage
  - input for connecting an external flood probe **FPX–1** (white), **FPX–1 BR** (brown) or **FPX–1 DG** (dark gray) – the probe available separately

AXD–200 is characterized by low energy consumption. It is powered by a CR123A 3 V lithium battery, whose condition is constantly monitored. The "ECO" option (available in **ABAX 2** only) extends the device operation time even fourfold.

The built–in LED makes easier checking the device in test mode and also indicates the subsequent stages of the detector type selection process. Its configuration and firmware upgrade can be carried out remotely. Radio communication in the **ABAX 2** system is AES encrypted.

The product is provided with tamper protection against opening of the enclosure and removal from the mount.

AXD–200 can also work outdoors, even during adverse weather conditions, if placed inside the **OPX–1** enclosure. When **AXD–200** is installed outside to work in one of the modes which require to use the magnet for proper operation, the **OPXM–1** (magnet in a hermetic enclosure) must be used.

The detector is available in white (**AXD–200**), brown (**AXD–200 BR**) and dark gray (**AXD–200 DG**).

- certificate of compliance with the EN 50131 requirements for Grade 2
- option to choose one of the available detector operating modes:
  - magnetic contact
  - dual channel magnetic contact (with an additional mode as a 2x NC hardwired zone expander – ABAX 2 only)
  - magnetic contact with input for roller shutter detector (with an additional mode as a 2x NC hardwired zone expander – ABAX 2 only)
  - shock detector and magnetic contact
  - reorientation detector
  - temperature detector
  - flood detector
- 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 1200 m (with **ACU–280**)
  - in **ABAX**: up to 500 m
- remote configuration and updating of the firmware
- built–in temperature sensor (temperature measurement in the range 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

TECHNICAL DATA

M1 input sensitivity (NC)	240 ms
Battery	CR123A 3V
Battery working time (in years)	up to 2
Temperature measurement accuracy	±1°C
Environmental class according to EN50130-5	II
Maximum humidity	93±3%
Max. current consumption	7 mA
Weight	59 g
Operating frequency band	868,0 ÷ 868,6 MHz
Standby current consumption	55 µA
Temperature measurement range	-10°C...+55°C
Complied with standards	EN 50130-4, EN 50130-5, EN 50131-1, EN 50131-2-6, EN 50131-5-3
Security grade according to EN50131-2-6	Grade 2
Maximum gap - surface magnet (magnetic contact)	20 mm
Maximum gap - recessed magnet (magnetic contact)	18 mm
Detector enclosure dimensions	20 x 102 x 23 mm
Magnet enclosure dimensions - surface mounting	15 x 52 x 6 mm
Magnet pad dimensions - recessed mounting	ø10 x 28 mm
Magnet pad dimensions - surface mounting	15 x 52 x 6 mm
Operating temperature range	-10°C...+55°C
Shock detection range (depending on the type of mounting surface)	up to 3 m
Radio communication range (in open area) for ACU-120	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-270	up to 500 m
Radio communication range (in open area) for ACU-280	up to 1200 m