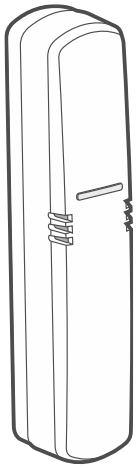
Multi Sensor

ATPH-200

EN

Firmware version 1.00



CE

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IMPORTANT

Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.

Description of symbols on the device:

The device meets the requirements of the applicable EU directives.

The device must not be disposed of with other municipal waste. It should be disposed of in accordance with the existing rules for environment protection (the device was placed on the market after 13 August 2005).

The device is designed for indoor installation.

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.
Please visit us at:
https://support.satel.pl

Hereby, SATEL sp. z o.o. declares that the radio equipment type ATPH-200 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.satel.pl/ce

Signs in this manual

Caution – information on the safety of users, devices, etc.

Note – suggestion or additional information.

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The ATPH-200 sensor (Multi Sensor) measures temperature, pressure and humidity. The manual applies to the sensor installed in the BE WAVE system.

1. Features

- Temperature sensor:
  - measuring range: -10°C...+55°C,
  - measurement accuracy: ±0.2°C.
- Barometric pressure sensor:
  - measuring range: 260...1260 hPa,
  - measurement accuracy: ±0.1 hPa.
- Humidity sensor:
  - measuring range: 0%RH...93%RH,
  - measurement accuracy: ±1.5%RH.
- Operation in the 868 MHz frequency band.
- AES encrypted two-way radio communication.
- Transmission channel diversity – 4 channels for automatic selection of the one that will enable transmission without interference with other signals.
- Remote settings programming.
- Remote firmware update.
- LED indicator.
- Sensors supervision.
- Powered by CR123A 3 V battery.
- Battery status control.
- Tamper protection against enclosure opening and removal from mounting surface.

If any of the sensors is damaged, the LED indicator is flashing and the device does not communicate with the controller.

2. Description

Electronics board

Do not remove the electronics board from the enclosure to avoid damage to the components on the board.

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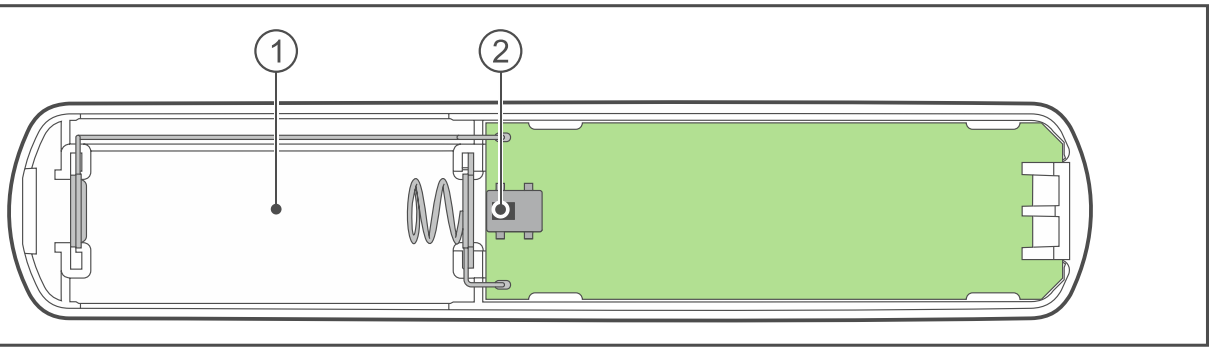

Figure 1 shows the inside of the device after opening the enclosure.

① battery holder (CR123A 3 V).

② tamper switch.

LED indicator

The LED indicator is flashing for several seconds after inserting the battery.

The LED indicator indicates damage to the sensor in the device – flashing.

Additionally, when the diagnostic mode is enabled in the system, the LED indicator indicates periodical communication – short flash.

3. Installation

There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly.

Do not crush the battery, cut it or expose it to high temperatures (throw it into the fire, put it in the oven, etc.).

Do not expose the battery to very low pressure due to the risk of battery explosion or leakage of flammable liquid or gas.

Be particularly careful during installation and replacement of the battery. The manufacturer is not liable for the consequences of incorrect installation of the battery.

If the sensor is mounted higher than 2 meters above the ground, it may cause harm if it falls off.

3.1 Tips for installation

- The sensor should be installed indoors, in spaces with normal air humidity.
- Do not install the sensor outdoors.
- When selecting a place of installation, consider the radio communication range.
- Thick walls, metal partitions, etc. reduce the range of the radio signal.
- If you are using a double-sided mounting tape, remember to press it properly. Stick the tape to the device and keep pressing for several seconds, then stick the device to the surface and keep pressing for several seconds.

3.2 Mounting

The figures show the sensor mounted vertically, but it may be mounted in any position (it has no effect on its operation).

1. Open the sensor enclosure (Fig. 2). The enclosure opening tool, shown in the figure, is provided with the sensor.

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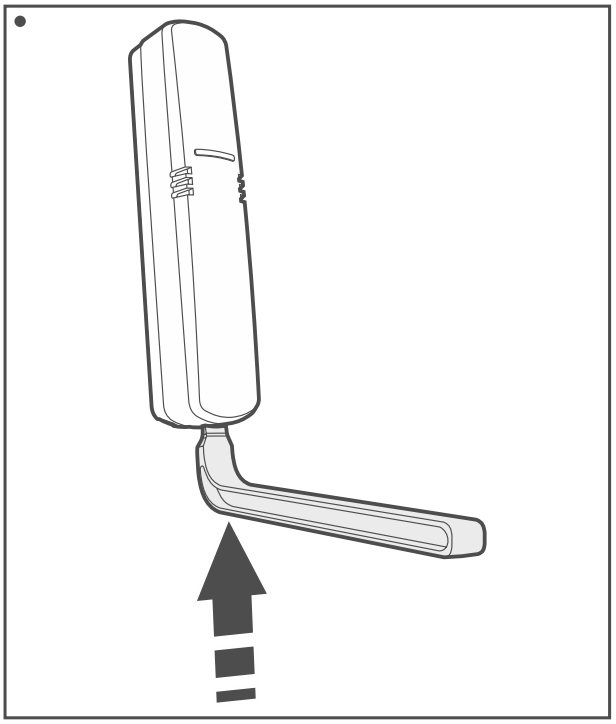
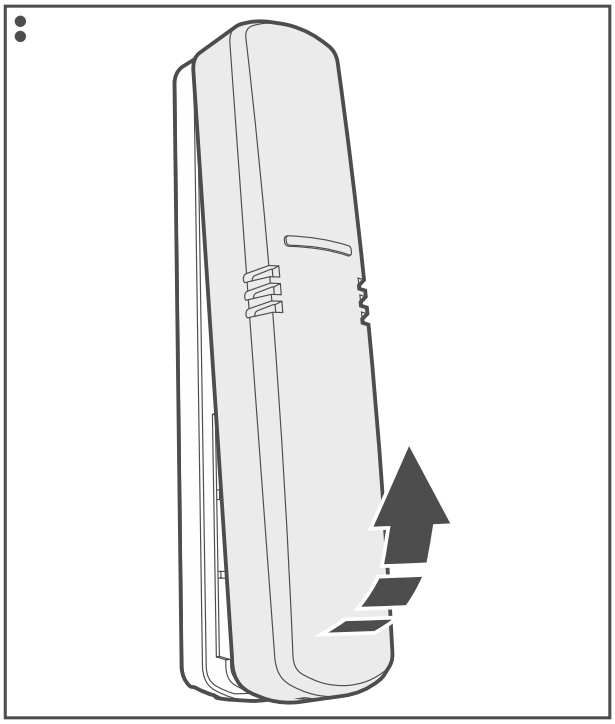
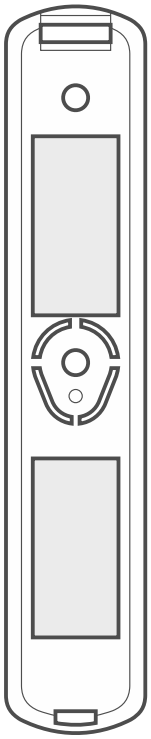




2. If the sensor is to be mounted on the surface using a double-sided mounting tape (Fig. 3):
   – stick the tape to the enclosure base.
   – stick the enclosure base to the surface.

3



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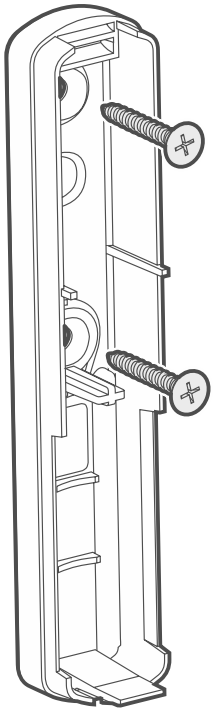

3. If the sensor is to be mounted on the surface with screws:
   – place the enclosure base against the surface and mark the location of the mounting holes.

– drill the holes in the surface for wall plugs (anchors). The wall plugs provided with the sensor are intended for concrete or brick. For other types of surface (drywall, styrofoam), use other appropriately selected wall plugs.
– secure the enclosure base to the surface with screws (Fig. 4).

If the sensor is to detect removal from the surface, secure the sensor with screws.

4. Add the sensor to the system (see the manual for the BE WAVE system controller or the BE WAVE Hybrid system control panel). When a request to turn on the device will be displayed, install the battery in the sensor.
5. Close the sensor enclosure.

4. Test

Enable the diagnostics mode in the system (see the manual for the BE WAVE system controller or the BE WAVE Hybrid system control panel). When the diagnostic mode is enabled, the sensor reacts quicker to changes in temperature, pressure or humidity.

5. Battery replacement

The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.

The Be Wave app will indicate that the battery in the sensor is low. The low battery should be replaced as soon as possible.

1. In the Be Wave app / BE WAVE Soft program, tap / click the room in which the sensor is installed.
2. Tap / click the sensor name.
3. Start the *Battery replacement* function.
4. Open the sensor enclosure.
5. Remove the low battery.
6. Wait 1 minute.
7. Install the new battery.
8. Close the sensor enclosure.
9. Start the *Unbypass device* function in the Be Wave app / BE WAVE Soft program.

6. Specifications

Operating frequency band ..... 868.0 MHz ÷ 868.6 MHz
Radio communication range (in open area) ..... up to 1300 m
Battery ..... CR123A 3 V
Battery life ..... up to 5 years
Standby current consumption ..... 48 µA
Low battery voltage threshold ..... 2.75 V
Temperature measurement range ..... -10°C...+55°C
Temperature measurement accuracy ..... ±0.2°C
Temperature measurement resolution ..... 0.1°C
Pressure measurement range ..... 260...1260 hPa
Pressure measurement accuracy ..... ±0.1 hPa

Pressure measurement resolution	0.1 hPa
Humidity measurement range	0%RH...93%RH
Humidity measurement accuracy	±1.5%RH
Humidity measurement resolution	0.1%RH
Environmental class according to EN 50130-5	II
Operating temperature range	-10°C...+55°C
Maximum humidity	93±3%
Dimensions	20 x 102 x 23 mm
Weight	43 g