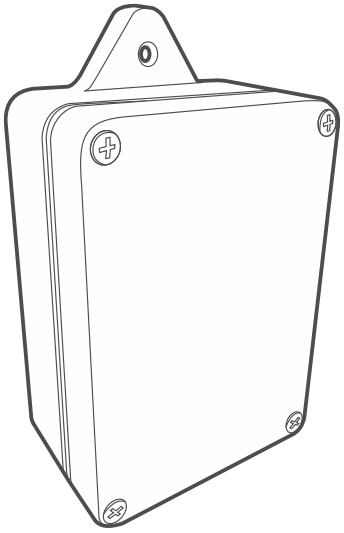
Outdoor Dusk Detector

ADD-200

EN

Firmware version 1.02



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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 meets the technical regulations of the Eurasian Customs Union.

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).

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 ADD-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.

CONTENTS

The ADD-200 detector (Outdoor Dusk Detector) detects dusk and dawn based on the measurement of light intensity. It is designed for outdoor installation. The manual applies to the detector installed in the BE WAVE system.

1. Features

- Dusk sensor:
  - measuring range: 2 lx...250 lx,
  - immunity to short and accidental changes of light intensity.
- 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.
- Built-in temperature sensor (measuring range: -20 °C...+55°C).
- LED indicators.
- Powered by CR123A 3 V battery.
- Battery status control.
- Weatherproof enclosure.

2. Description

Electronics board

1

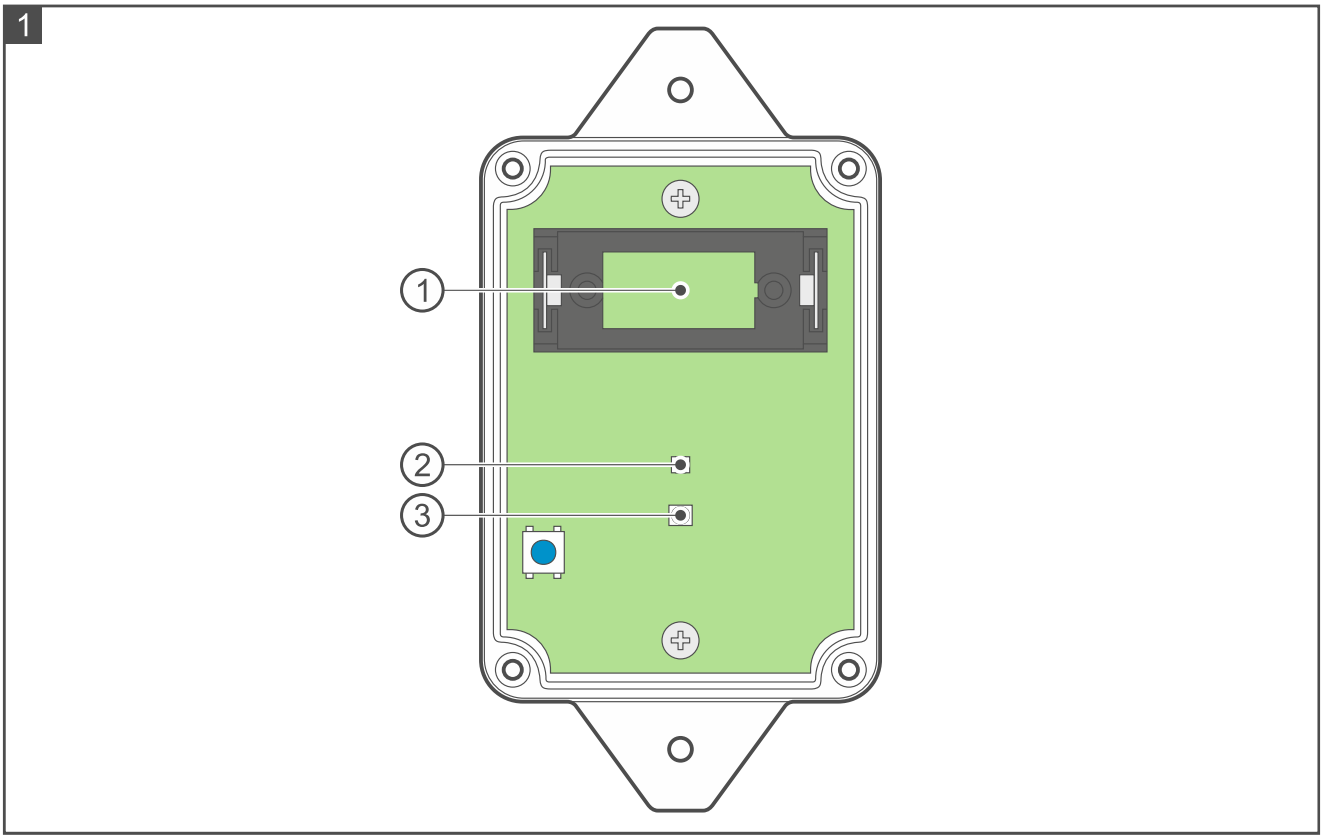

Figure 1 shows the inside of the detector after removing the cover.

① battery holder (CR123A 3 V).

② dusk sensor.

③ red LED indicator. The indicator is ON for about 5 seconds after inserting the battery (detector warm-up). After that, it is only enabled while the diagnostics mode is started in the system. It 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 detector is mounted higher than 2 meters above the ground, it may cause harm if it falls off.

3.1 Tips for installation

- Do not install the detector in places where it will be exposed to direct sunlight. Excessive temperature may e.g. cause damage to the dusk sensor or battery.
- When selecting a place of installation, consider the radio communication range.
- Thick walls, metal partitions, etc. reduce the range of the radio signal.

3.2 Mounting

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

1. Press the gasket into the groove of the enclosure cover. The gasket must fill the entire groove. Both ends of the gasket should meet (Fig. 2). The gasket is longer than the groove. Cut the excess gasket when you have filled the entire groove.
2. Add the detector 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 detector.

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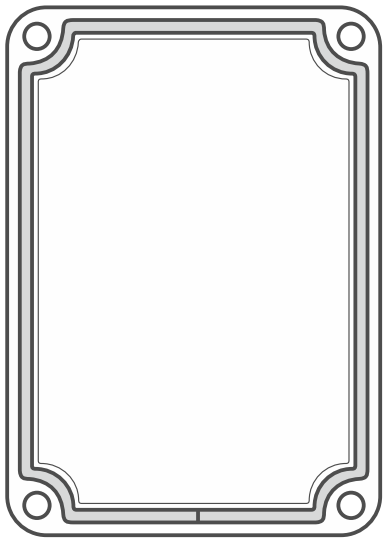
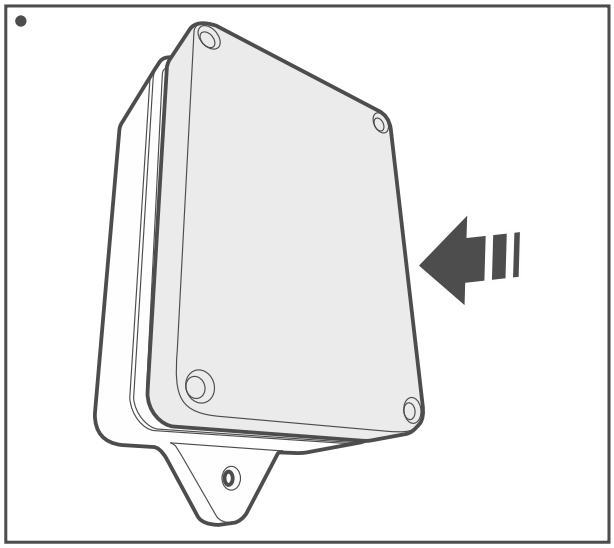
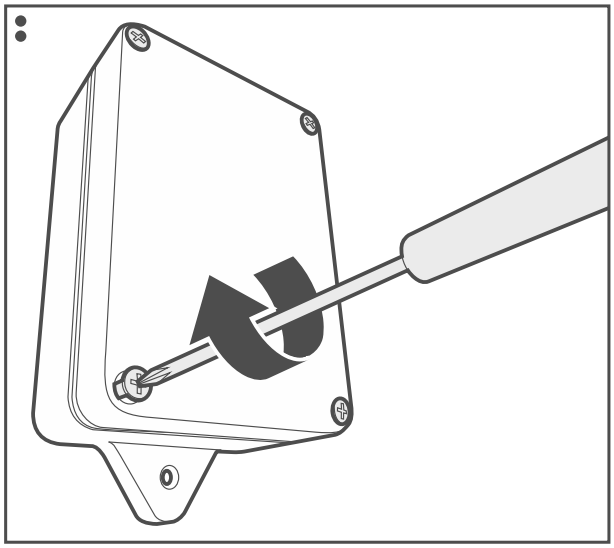


3. Replace the cover and secure it to the enclosure base with screws (Fig. 3).

When replacing the cover, make sure the gasket ends are on the bottom.

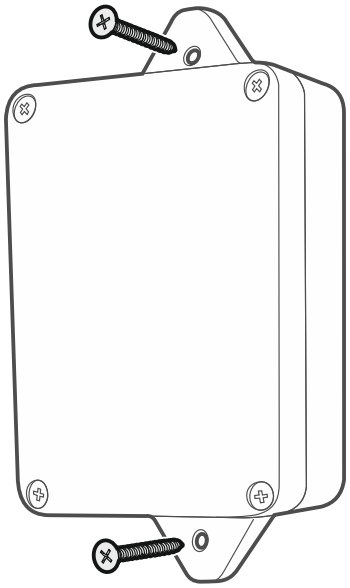
3





4. Place the detector against the surface and mark the location of the mounting holes.
5. Drill the holes in the surface for wall plugs (anchors). Use wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
6. Secure the detector to the surface with screws (Fig. 4).

4



4. Test

1. 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 diagnostics mode is started, the detector will react quicker to changes in light intensity.
2. Cover the detector with a cardboard box, thick and dark fabric, etc. The detector should detect dusk after 3 seconds.
3. Disable the diagnostics mode.

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 detector 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 detector is installed.
2. Tap / click the detector name.
3. Start the *Battery replacement* function.
4. Open the detector enclosure.
5. Remove the low battery.
6. Wait 1 minute.
7. Install the new battery.
8. Close the 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 expectancy	up to 2 years
Standby current consumption	20 µA
Low battery voltage threshold	2.75 V
Light intensity measurement range	2 lx...250 lx
Temperature measurement range	-20°C...+55°C
Temperature measurement accuracy	±1°C
Warm-up period	5 s
Environmental class according to EN 50130-5	III
Operating temperature range	-20°C...+55°C
Maximum humidity	93±3%
IP code	IP65
Dimensions	58 x 115 x 34 mm
Weight	95 g