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Satel MPB-300 Wireless Panic Button User Manual

MPB-300
Wireless panic button
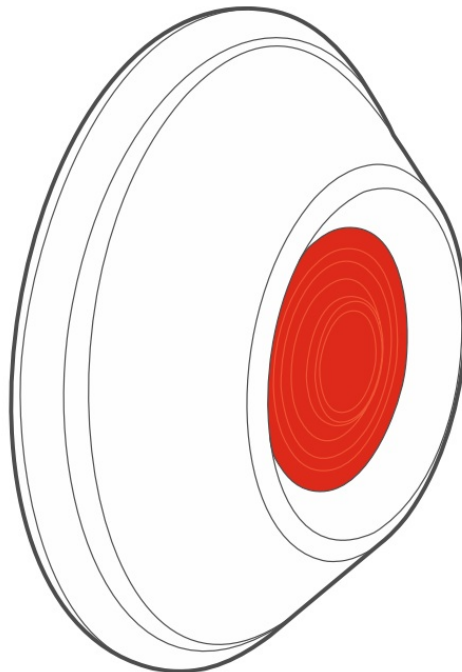
Firmware version 1.00
mpb-300_en 10/21
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$C\,\epsilon$

Contents

IMPORTANT

The device should be installed by qualified personnel.
Prior to installation, please read carefully this manual.
Changes, modifications, or repairs not authorized by the manufacturer shall void your rights under the warranty.
The rating plate of the device is located on the enclosure base.

$C\,\epsilon$ The device meets the requirements of the applicable EU directives.

The device is designed for indoor installation.

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

EAC The device meets the technical regulations of the Eurasian Customs Union.

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.eu**

Hereby, SATEL sp. z o.o. declares that the radio equipment type MPB-300 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.eu/ce
The following symbols may be used in this manual:

i – note,

$!$ – caution.

The MPB-300 panic button is used to trigger a panic alarm or call for help in emergency situations. It can also be used to control the operation of various devices (e.g. automation or access control system devices). The button is supported by:

- PERFECTA alarm control panels (WRL models),

- VERSA-MCU controller,
- MTX-300 controller,
- MICRA alarm module (firmware version 2.02 or newer),
- INT-RX-S expander (firmware version 1.04 or newer) – only in keyfob mode,
- RK-1K / RK-2K / RK-4K / RK-4K SMA radio remote controller – only in keyfob mode.

This manual applies to the button with electronics version 1.2.

Features

- Selectable operating mode:
  – detector,
  – keyfob.
- Encrypted radio transmissions in the 433 MHz frequency band.
- Battery status control.
- LED indicator in the button configuration and testing mode.
- Tamper protection against enclosure opening and removal from the mounting surface.

Description

The button can operate as a wireless detector or a keyfob. Select the operating mode before you register the button in the wireless system. The default setting is the wireless detector mode. Depending on the selected operating mode, the button will be identified as:

- MMD-300 detector,
- MPT-350 keyfob.

2.1 Button operates as a detector
Radio transmissions
Every 15 minutes, the detector sends information about its state (periodical transmission). Additional radio transmissions take place as a result of the alarm.
Alarms
The panic button will report an alarm:

- when pressed,
- when the tamper switch is open (tamper alarm).

Test mode
For 20 minutes after the battery is inserted or the tamper switch is opened, the button operates in a special mode that allows you to test the button. The LED is enabled in the test mode.
LED
The LED will flash for about 5 seconds after the battery is inserted to indicate the warm-up of the button. The LED also works during the operating mode selection procedure (see "Selecting the button operating mode") and in the test mode, in which it indicates:

- periodical transmission – short flash (80 milliseconds),
- alarm – ON for 2 seconds,

Battery status control
When the battery voltage is below 2.75 V, information about the low battery is sent during each transmission.
2.2 Button operates as a keyfob
Radio transmissions
Radio transmissions are sent:

- after pressing the button – same transmission as when the button is pressed on the MPT-350 keyfob,

- after opening the tamper switch – same transmission as when the button is pressed on the MPT-350 keyfob.

Transmission is sent for the entire time when the button is pressed / the tamper switch is open but no longer than 20 seconds (battery discharge protection).
**LED**
The LED indicates:

- warm-up – ON for about 5 seconds after the battery is inserted,

- the button is pressed / tamper switch is open – ON for 2 seconds.

The LED is also used during the operating mode selection procedure (see "Selecting the button operating mode").
Battery status control
When the battery voltage is below 2.75 V, information about the low battery is sent during each transmission.

Electronics board
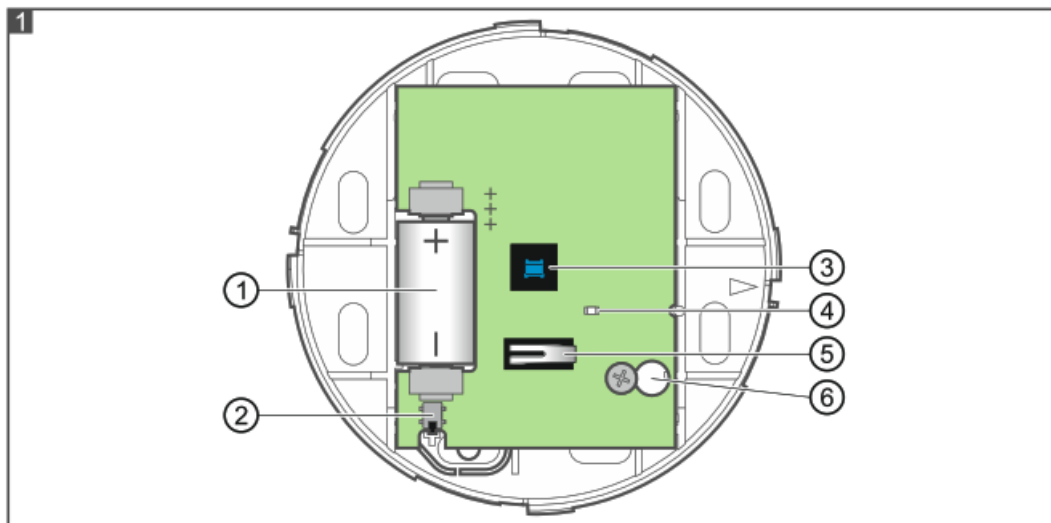
1. battery (CR14250).

2. tamper switch activated by removal from the mounting surface.

3. button.

4. LED.

5. tamper switch activated by cover removal.

6. fixing screw hole.

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 the installation and replacement of the battery. The manufacturer is not liable for the consequences of the incorrect installation of the battery.
The used batteries must not be discarded but should be disposed of in accordance with the existing rules for environmental protection.
The button is designed for indoor installation.

1. Remove the button cover (Fig. 2).
2. If the button is to work in the MMD-300 detector mode, insert the battery (this operating mode is set by default).

   If the button is to operate in the MPT-350 keyfob mode, select this operating mode (see "Selecting the button operating mode" p. 7).
3. Register the button in the system as prescribed for the selected operating mode (see: PERFECTA / VERSA control panel installer manual, MTX-300 controller manual or

   MICRA module manual).
4. Replace the button cover. The marks on the cover and base will help you close the enclosure (Fig. 3).
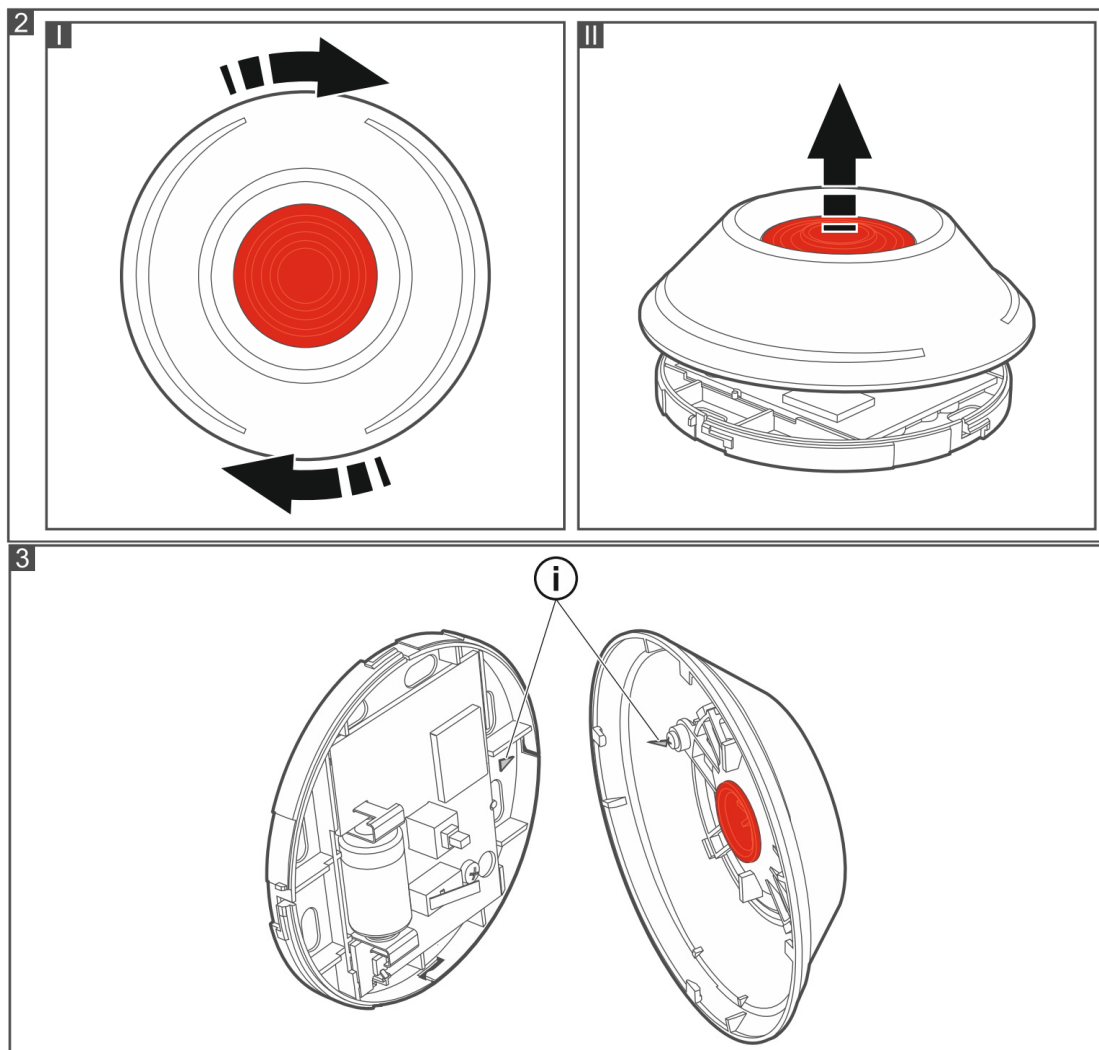
5. Place the button at its future mounting location.
6. Press the button. If the transmission is received, continue with the installation. If the transmission is not received, select a different mounting location and repeat the test.

   Sometimes, it is sufficient to shift the detector ten or twenty centimeters.
7. Remove the cover.
8. Remove the battery.
9. Remove the electronics board (Fig. 4).
10. Drill the holes for screws in the enclosure base (Fig. 5). We recommend mounting the enclosure base to the surface with 3 screws. Remember to take into account the

the mounting hole in the tamper protection element as indicated by the ⚠ sign in Fig. 5.

11. Use screws to mount the enclosure base to the surface. If necessary, select appropriate wall plugs (anchors) based on the type of the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).

12. Fasten the electronics board.

13. Insert the battery.

14. Press and release the tamper switch to enable the test mode.

15. Press the button to see if the LED lights up.

16. Replace the button cover (Fig. 3).
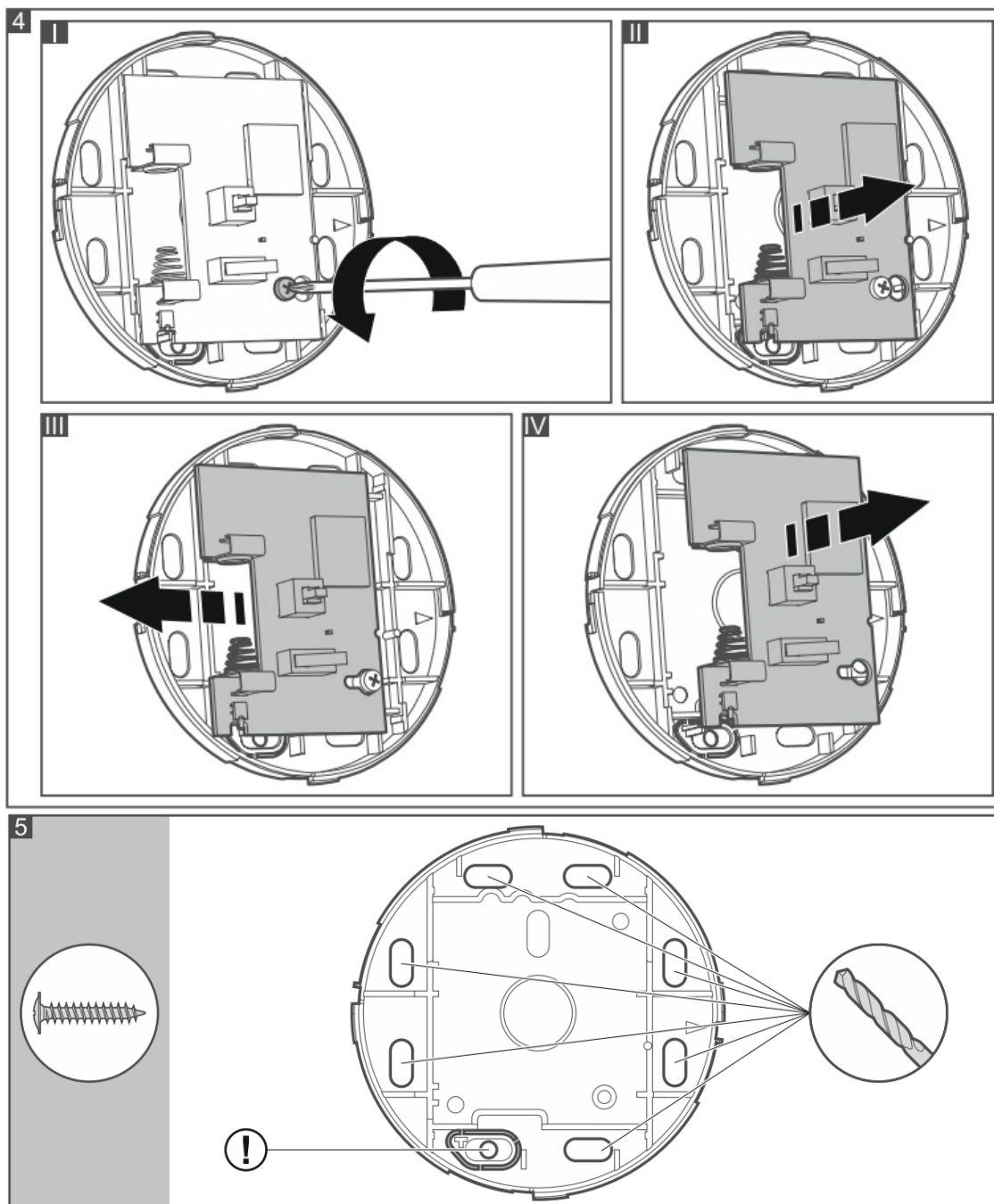
4.1 Selecting the button operating mode

1. Remove the button cover (Fig. 2).

2. Press and hold the tamper switch activated by cover removal.

3. Insert the battery and release the tamper switch. The LED will start flashing rapidly.

4. Within 10 seconds after the battery is inserted:

– Press the button once to select the MMD-300 detector mode,

– Press the button twice to select the MPT-350 keyfob mode.

i If you fail to press the button within 10 seconds after you inserted the battery, the procedure will be interrupted and the operating mode will not change.

5. The settings will be saved 3 seconds after the operating mode is selected. The LED will stop flashing, then it will indicate which of the operating modes has been selected:

– 1 flash – MMD-300 detector,

– 2 flashes – MPT-350 keyfob.

Specifications

Operating frequency band ……………………………………………………….. 433.05 ÷ 434.79 MHz
Radio communication range (in open area)
PERFECTA …………………………………………………………………….. up to 600 m
VERSA-MCU / MTX-300 / MICRA …………………………………………… up to 500 m
MRU-300…………………………………………………………………………. up to 300 m
Battery …………………………………………………………………………… CR14250 3 V
Battery life expectancy ……………………………………………………………… up to 2 years
Standby current consumption …………………………………………………………. 12 µA
Maximum current consumption ……………………………………………………… 11 mA
Environmental class according to EN50130-5 ……………………………………………………. II
Operating temperature range ……………………………………………………… -10°C…+55°C
Maximum humidity ……………………………………………………………… 93±3%
Dimensions ……………………………………………………………………... ø97 x 29 mm
Weight …………………………………………………………………………… 73 g

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MPB-300

Documents / Resources

Satel MPB-300 Wireless Panic Button [pdf] User Manual
MPB-300 Wireless Panic Button, MPB-300, Wireless Panic Button

References

- ❋ **Intelligent Security Solutions | SATEL**
- ❋ **satel.eu/ce**
- ◈ **support.satel.pl**