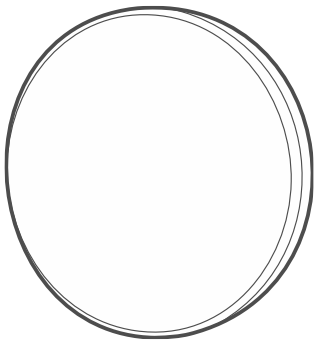
Wireless control button

APB-210

EN

Firmware version 1.00



CE

apb-210_en 05/24

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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.

Description of symbols on the device:

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 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 APB-210 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

In the EU, this radio equipment is only permitted to operate in the 868 MHz frequency band.

The following symbols may be used in this manual:

- note,
- caution.

CONTENTS

1. Features 2
2. Description 2
Radio communication 2
Control of the ACU-220 controller output 2
Energy saving mode (ECO) 2
Battery status control 2
3. Installation 2
4. Battery replacement 4
5. Specifications 5

The APB-210 button can be used to control the operation of various devices (e.g. automation or access control system devices). It can also be used to generate a panic alarm or call for help in emergency situations. It is designed to work within the ABAX 2 two-way wireless system. The button is supported by:

- ACU-220 / ACU-280 controller with firmware version 6.08 (or newer),
- ARU-200 repeater.

The button is not supported by the ACU-220 / ACU-280 controller connected to a VERSA series control panel.

1. Features

- Encrypted two-way radio communication in the 868 MHz / 915 MHz frequency band (AES standard).
- Transmission channel diversity – 4 channels for automatic selection of the one that will enable transmission without interference with other signals in the 868 MHz / 915 MHz frequency band.
- Remote update of the button firmware.
- Remote configuration.
- *ECO* option for longer battery life.
- Battery status control.

2. Description

The APB-210 button occupies one position on the list of wireless devices.

Radio communication

The button connects to the controller at regular time intervals to provide information about its state (periodical communication). Additional communication takes place after pressing the button (activation).

Control of the ACU-220 controller output

The button can be used to control the ACU-220 controller output. The output can be turned on for a preset period of time or switched when the button is pressed (see the ACU-220 controller manual). This function is available in the ACU-220 controller with firmware version 6.08 (or newer) that operates as the universal module of wireless devices.

Energy saving mode (ECO)

If you want to extend the battery life, you can enable the *ECO* option for the button. When the *ECO* option is enabled, the periodical communication takes place every 3 minutes. This can significantly increase the battery life.

Battery status control

When the battery voltage is below 2.6 V, a low battery status is sent during each transmission.

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.).

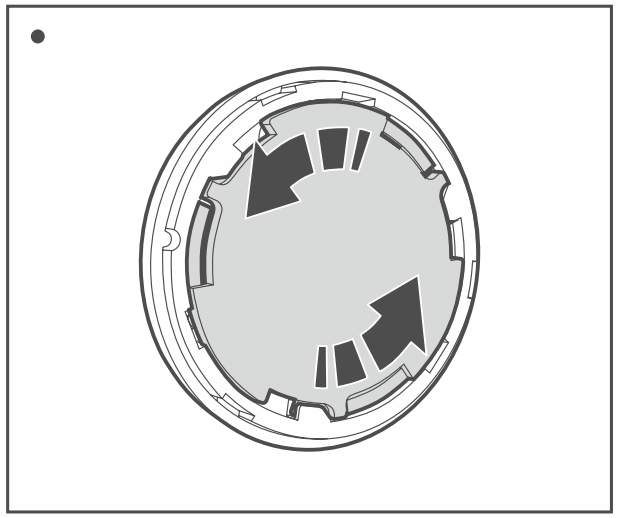
Do not expose the battery to very low pressure due to the risk of battery explosion or leakage of flammable liquid or gas.

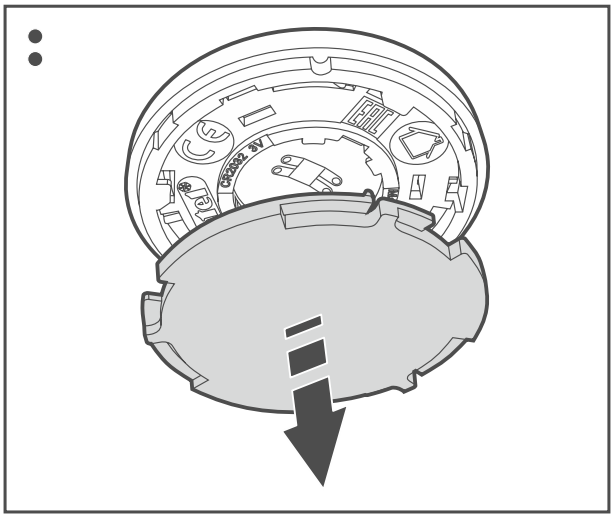
Be particularly careful during installation and replacement of the battery. The manufacturer is not liable for the consequences of incorrect installation of the battery.

The button is designed for indoor installation.

1. Open the button enclosure (Fig. 1).
2. Insert the battery (Fig. 2) and add the button to the wireless system (see the ABAX 2 controller manual). The sticker with the serial number required for registration of the button in the system can be found inside the battery socket.

1





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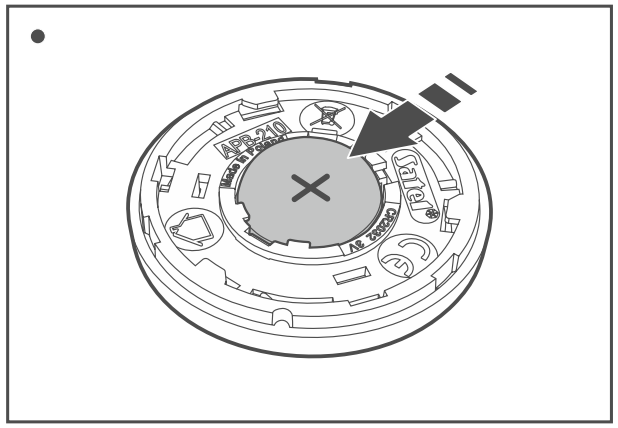
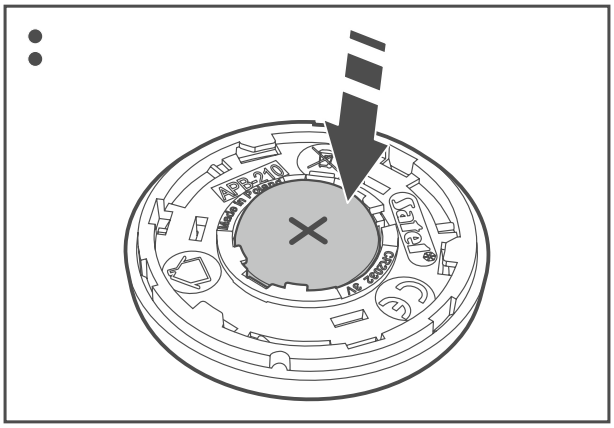


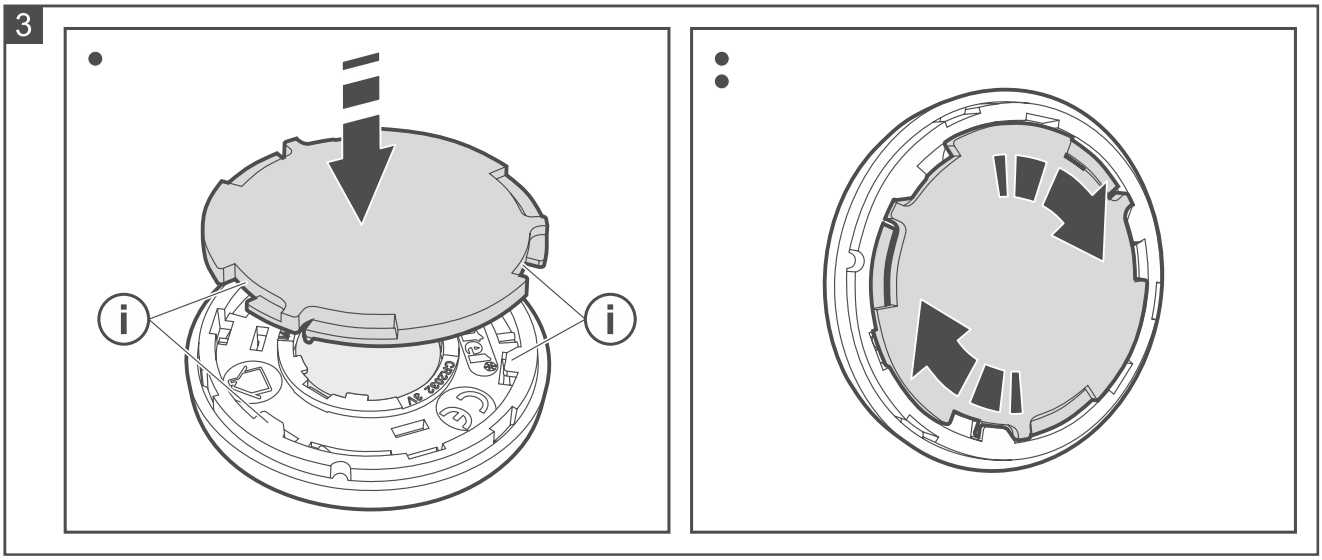


In the INTEGRA alarm system, you can add and configure the APB-210 button only in the DLOADX program.

In the PERFECTA 64 M alarm system, you can add and configure the APB-210 button only in the PERFECTA Soft program.

3. Close the button enclosure (Fig. 3).

3



4. Place the button in its selected mounting location.
5. Check the level of signal received from the button by the ABAX 2 controller. If the signal level is lower than 40%, select another mounting location. It may be sufficient to shift the device ten or twenty centimeters.

Use the ARF-200 tester to test the radio signal strength at the selected mounting location without having the button physically there.

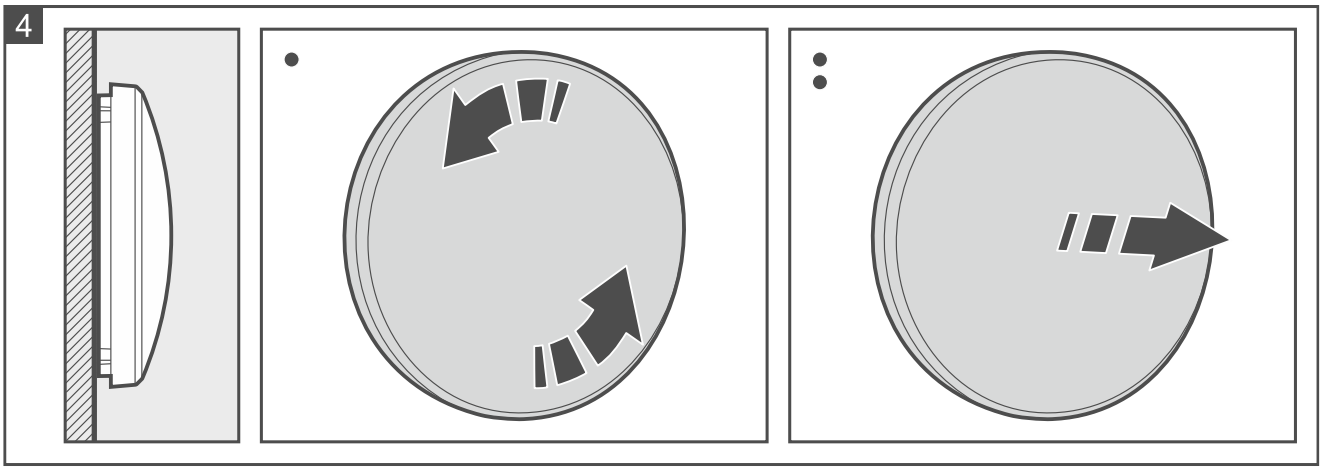
6. Attach the button to the surface using the double-sided tape provided with the button:
   – stick the tape to the enclosure base,
   – stick the button to the surface.
7. Check if the button works properly.

4. Battery replacement

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

The battery life depends on how the button is used. The more frequently the button is pressed, the faster the battery drains. There is no need to detach the button from the surface to replace the battery. To open the enclosure, turn the button counter-clockwise (Fig. 4). Install the battery as shown in Figure 2.

4



5. Specifications

Operating frequency band ..... 868.0 MHz ÷ 868.6 MHz / 915 MHz – 928 MHz
Radio communication range (in open area)
ACU-220 ..... up to 1000 m
ACU-280 ..... up to 500 m
Battery ..... CR2032 3 V
Battery life expectancy ..... up to 3 years
Standby current consumption ..... 5 µA
Low battery voltage threshold ..... 2.6 V
Environmental class according to EN 50130-5 II
Operating temperature range ..... -10°C...+55°C
Maximum humidity ..... 93±3%
Dimensions ..... ø50 x 13 mm
Weight ..... 17 g