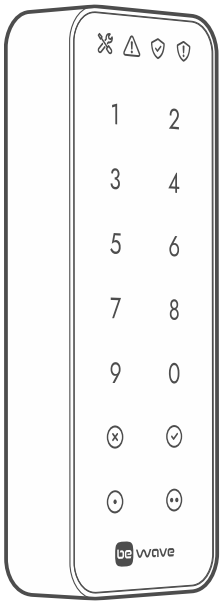
Smart Keypad

AKP-200

Firmware version 1.01

EN



akp-200_BW_en 08/26

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IMPORTANT

The device should be installed by qualified personnel.

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.

Prior to installation, please read carefully the manual.

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 AKP-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 AKP-200 keypad (Smart Keypad) is used to control the BE WAVE system.

You can install up to 4 Smart Keypads in the system.

1. Features

- Touch keys with backlight.
- 2 function keys.
- 4 LED indicators.
- Built-in sounder.
- 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.
- Powered by:
  – two LR6 AA 1.5 V batteries (required),
  – SATEL APS-055 power supply (optional).
- Battery status control.

2. Description

1

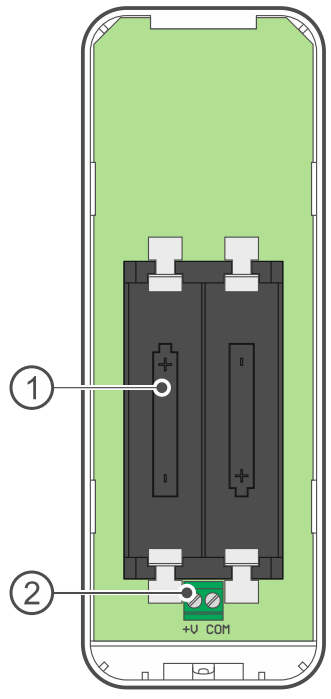


Figure 1 shows the inside of the keypad.

① battery holder (2 x LR6 AA 1.5 V).

② terminals for connecting the APS-055 power supply (external power supply):

COM - common ground.

V+ - 5...12 VDC power input.

Install two LR6 AA 1.5 V alkaline batteries in the keypad (they are not supplied with the keypad). We do not recommend installing rechargeable batteries. Optionally, you can connect the SATEL APS-055 power supply (external power supply) to the keypad. The APS-055 is a flush-mounted 5 VDC / 0.5 A power supply. When the power supply is connected to the keypad, the batteries are used only in case of loss of external power supply.

3. Installation

Disconnect power before making any electrical connections.

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.

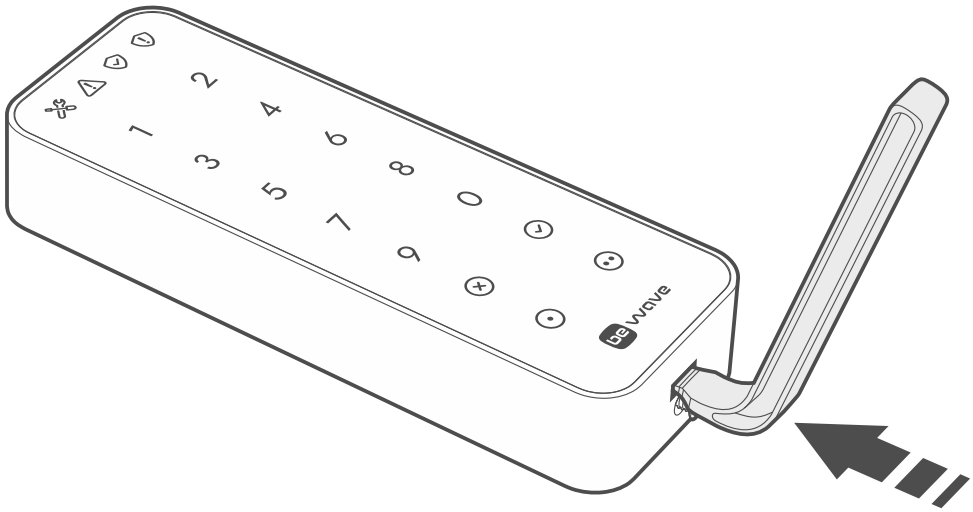
3.1 Tips for installation

- The keypad should be installed indoors, in spaces with normal air humidity.
- Do not install the keypad outdoors.
- When selecting a place of installation, consider the radio communication range.
- Thick walls, metal partitions, etc. reduce the range of the radio signal.
- The place of installation should be readily accessible to the system users.
- To connect the APS-055 power supply, use flexible wires with a cross-section of 0.5-0.75 mm^2.
- 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

1. Loosen the cover locking screw and open the keypad enclosure (Fig. 2). The enclosure opening tool, shown in the figure, is provided with the keypad.
2. If the keypad is to be mounted on the wall using a double-sided mounting tape (Fig. 3):
   – stick the tape to the enclosure base.
   – if the APS-055 power supply is to be used, run the power wires through the opening in the enclosure base.
   – stick the enclosure base to the surface.

2

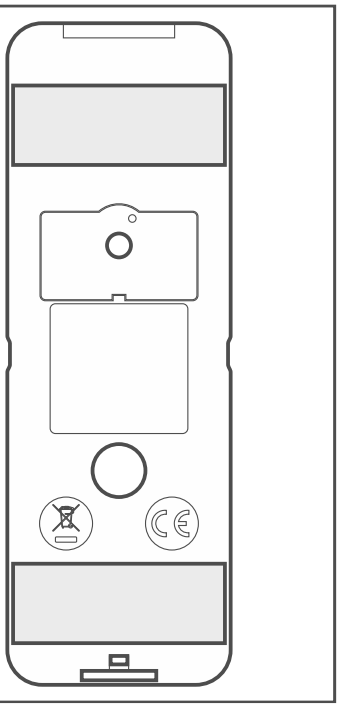


3. If the keypad is to be secured to the wall with screws (Fig. 4):
   – place the enclosure base against the wall and mark the location of mounting holes.
   – drill the holes in the wall for wall plugs (anchors). Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.).
   – if the APS-055 power supply is to be used, run the power wires through the opening in the enclosure base.
   – secure the enclosure base to the wall with screws.

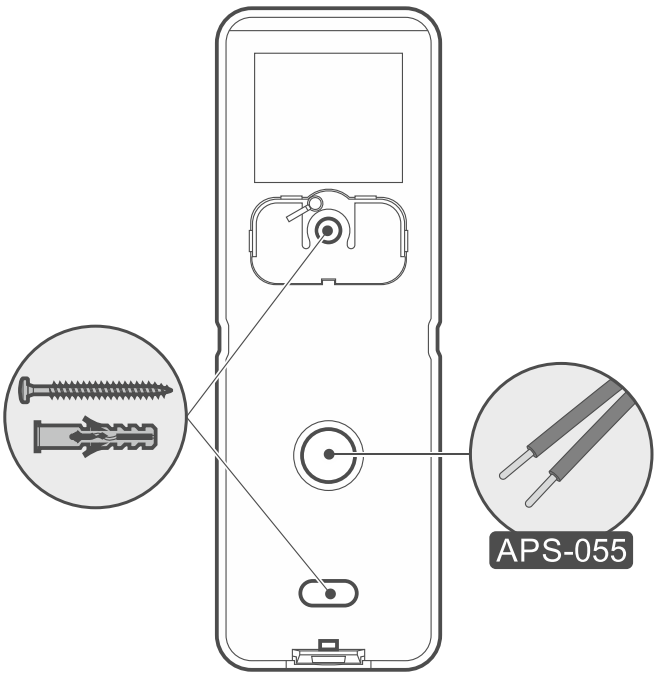
If the keypad is to detect removal from the wall, secure it with screws.

The keypad must detect removal from the wall if it is to meet the requirements of Standard EN 50131 for Grade 2.

3



4

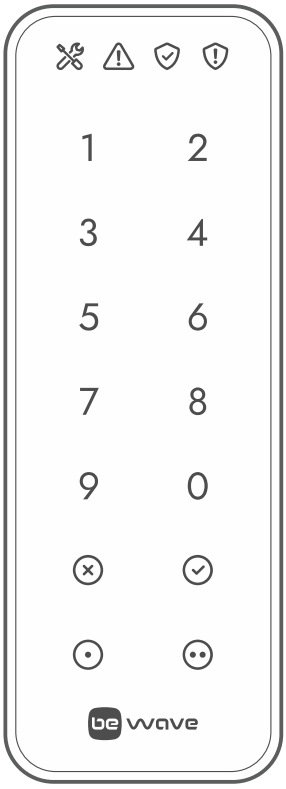


4. Add the keypad to the system (see the manual for the BE WAVE system controller or the BE WAVE Hybrid control panel). When a request to turn on the device will be displayed, install two LR6 AA 1.5 V alkaline batteries in the keypad.

5. If the APS-055 power supply is to be used, screw the power wires to the +V and COM terminals (Fig. 1).
6. Close the keypad enclosure and lock it with a screw.

4. Using the keypad

5



4.1 LED indicators

LED	Color	Description
	blue	**ON** – diagnostic mode is enabled
	yellow	**flashing** – trouble or trouble memory
	green	**ON** – system is armed **flashing** – exit delay countdown
	red	**ON** – alarm or alarm memory

If the Grade 2 mode is enabled in the system, the LED is OFF.

If the system is armed, the LED is OFF.

4.2 Keys

Functions of keys	
1...0	touch to enter a digit (for access code)
⊗	touch to clear the entered access code
⊘	enter access code and touch to arm the system / disarm the system / clear alarm
⊙	touch to start action 1 enter access code and touch to start action 2
⊚	touch to start action 3 enter access code and touch to start action 4

Availability of the actions depends on the keypad settings.

4.3 Sound signaling

The sound signaling can be disabled.

4.3.1 Beeps generated when keypad is in use

1 short beep – key touched.

4 short beeps – function started.

2 long beeps – function cannot be started (wrong access code or function unavailable) / entered access code cleared.

4.3.2 Event signaling

1 long beep every 3 seconds – exit delay countdown – longer than 10 seconds.

1 short beep every second – exit delay countdown – shorter than 10 seconds.

1 very long beep – end of exit delay.

2 short beeps every second – entry delay countdown.

Continuous beep – alarm. The signaling goes on for up to 60 seconds.

4.4 Operating modes of battery-powered keypad

When the keypad is powered by the batteries, it operates in one of the two modes:

Wake-up mode – LED indicators, backlight and sound signaling are enabled. The keypad is woken up:

- after you touch and hold any key for 1 second,
- when exit delay is signaled,
- when entry delay is signaled,
- when alarm is signaled.

In case of signaling, the keypad is woken up with a delay of several seconds. This is caused by the specific nature of the radio communication in the system.

If the ECO mode is enabled for the keypad, it is woken up only after you touch and hold any key for 1 second.

Sleep mode – LED indicators, backlight and sound signaling are disabled. The purpose of this mode is to save battery. The sleep mode is started:

- after 60 seconds since the last key touch,
- when exit delay signaling is over,
- when entry delay signaling is over,
- after 60 seconds of alarm signaling.

The keypad will not go to sleep if it is powered from a power supply (SATEL APS-055 power supply). The LED indicators, backlight and sound signaling are enabled all the time.

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 keypad batteries are low. The low batteries should be replaced as soon as possible.

1. In the Be Wave app / BE WAVE Soft program, tap / click the room in which the keypad is installed.
2. Tap / click the keypad name.
3. Start the *Battery replacement* function.
4. Open the keypad enclosure.
5. Remove the low batteries.
6. Wait 1 minute.
7. Install the new batteries.
8. Close the keypad 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 1100 m
Batteries	2 x LR6 AA 1.5 V
Standby current consumption from battery	155 µA
Low battery voltage threshold	2.45 V
Supply voltage (external power supply)	5...12 VDC
Standby current consumption from APS-055 power supply	27 mA
Maximum current consumption from APS-055 power supply	50 mA
Security grade according to EN 50131-1	Grade 2
Complied with standards	EN 50131-1, EN 50130-4, EN 50130-5
Environmental class according to EN50130-5	II
Operating temperature range	-10°C...+50°C
Maximum humidity	93±3%
Dimensions	45 x 128 x 21 mm
Weight	75 g