



# Homematic IP HmIP-WKP Smart Home Keypad User Manual

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**Homematic IP HmIP-WKP Smart Home Keypad****Information**

Please read this manual carefully before beginning operation with your Homematic IP device. Keep the manual so you can refer to it at a later date if you need to. If you hand over the device to other persons for use, please hand over this manual as well.

**Symbols used****Attention**

This indicates a hazard.

**Note:** This section contains important additional information.

**Hazard information**

- Do not open the device. It does not contain any parts that can be maintained by the user. If you have any doubts, have the device checked by an expert.
- For safety and licensing reasons (CE), unauthorized changes and/or modifications of the device are not permitted.
- Do not use the device if there are signs of damage to the housing, control elements, or connecting sockets, for example. If you have any doubts, have the device checked by an expert.
- The device is not a toy: do not allow children to play with it. Do not leave packaging material lying around.

Plastic films/bags, pieces of polystyrene, etc. can be dangerous in the hands of a child.

- We accept no liability for damage to property or personal injury caused by improper use or the failure to observe the hazard warnings. In such cases, all warranty claims are void. We accept no liability for any consequential damage.
- The device must only be operated in locations where it is protected from the effects of weather. The device must be protected from the effects of vibrations, solar or other methods of heat radiation, and mechanical loads.
- The device may only be operated within residential buildings.
- Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and will invalidate any warranty or liability.

## **Function and device overview**

With the Homematic IP Keypad, combined with your Homematic IP door lock actuator, you can give up to eight family members, friends, etc. access to your smart home. The door can be opened, locked, or unlocked by entering a PIN. In addition, other Homematic IP components can be used to create versatile coming/leaving home scenarios (e.g. switching on the hallway lighting). You can configure the door and display its current status via the free Homematic IP app. Wireless communication and battery operation mean the keypad can be installed anywhere. A main connection near the door is not necessary. You can use the enclosed screws and wall plugs for installation at your chosen location.

The integrated proximity sensor gives you additional convenience. Thanks to the integrated illumination, you can always make out the keys on your keypad even in dim outdoor lighting.

### **Device overview**

- (A) Wall bracket
- (B) Keypad
- (C) Keypad panel with keys 0-9
- (D) "Lock" button
- (E) "Unlock" button
- (F) Proximity sensor
- (G) Device LED
- (H) System button (pairing button)
- (I) Tamper contact
- (J) Battery compartment (and cover)
- (K) Drainage hole
- (L) Screw holes
- (M) Latch

## **General system information**

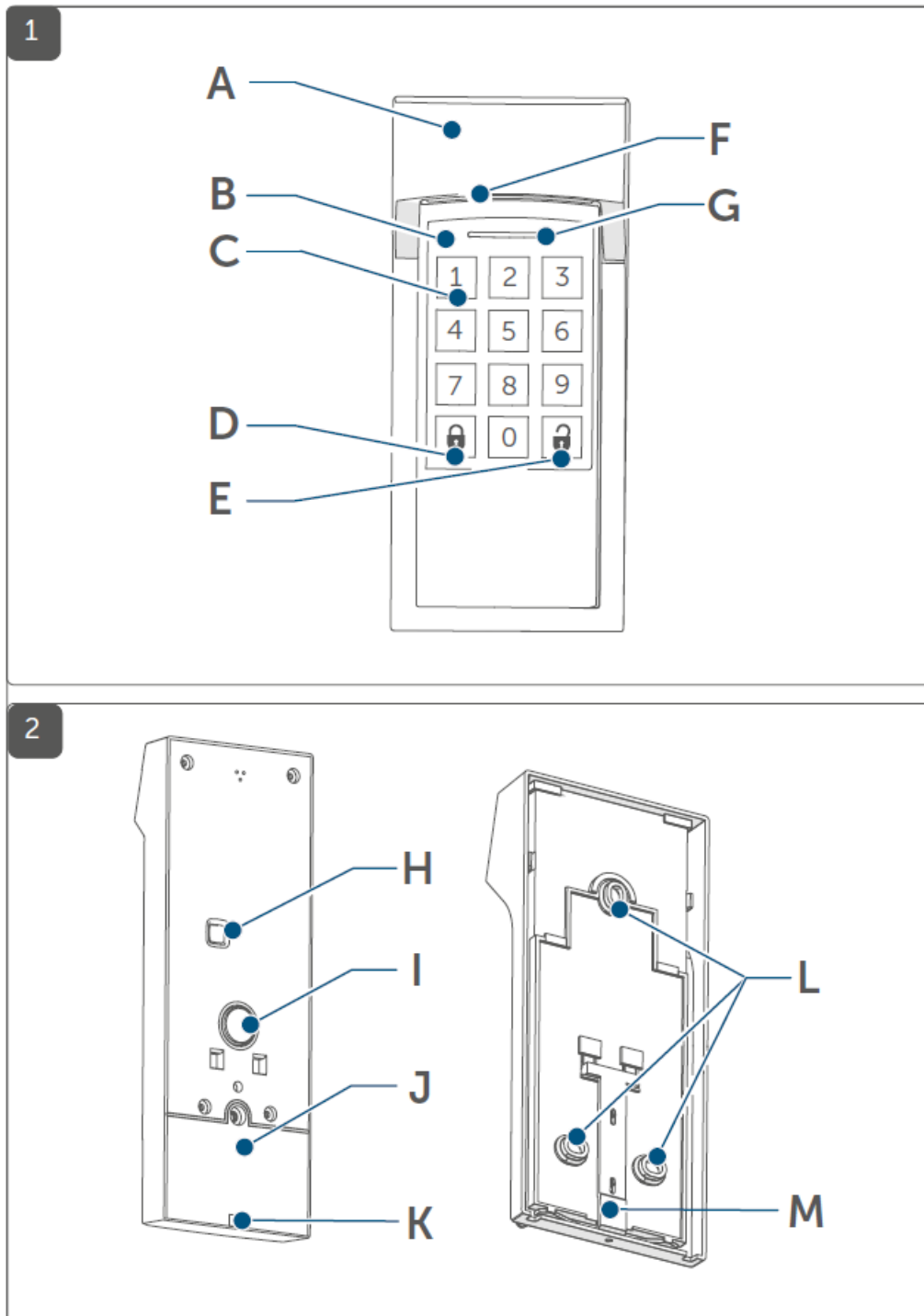
This device is part of the Homematic IP smart home system and works with the Homematic IP protocol. All devices of the system can be configured comfortably and individually with the user interface of the Central Control Unit CCU3 or flexibly via the Homematic IP smartphone app in connection with the Homematic IP cloud. All available functions provided by the system in combination with other components are described in the Homematic IP Wired Installation Guide. All current technical documents and updates are provided at [www.homematic-ip.com](http://www.homematic-ip.com)

## Operation Pairing

### Please read this entire section before starting the pairing procedure

You can connect the device either to the Access Point or to the Homematic Central Control Unit CCU3. For detailed information about pairing or configuration via a control unit, please refer to the Homematic IP User Guide, available for download in the download area of [www.homematic-ip.com](http://www.homematic-ip.com). First set up your Homematic IP Access Point via the Homematic IP app to enable the operation of other Homematic IP devices within your system. For further information, please refer to the operating manual of the Access Point. To integrate the Homematic IP Keypad into your system and enable it to communicate with other Homematic IP devices, you must first add the device to your Homematic IP Access Point.

To add the Keypad, please proceed as follows:



- Open the Homematic IP app on your smartphone.

- Select the menu item “Add device”.
- Remove the Keypad (B) from the wall bracket (A), by inserting a thin object into the hole on the bottom of the wall bracket (A) and releasing the latch (M)
- Open the Keypad’s rear battery compartment (J) by loosening the screw on the battery compartment cover
- Pull the insulating strip out of the battery compartment of the Keypad (first start-up).

As soon as the insulating strip has been pulled out, the device sends a tamper message, and the device LED (G) flashes red six times (see „7.5 Error codes and flashing sequences“ on page 33).

- The pairing mode is active for 3 minutes.

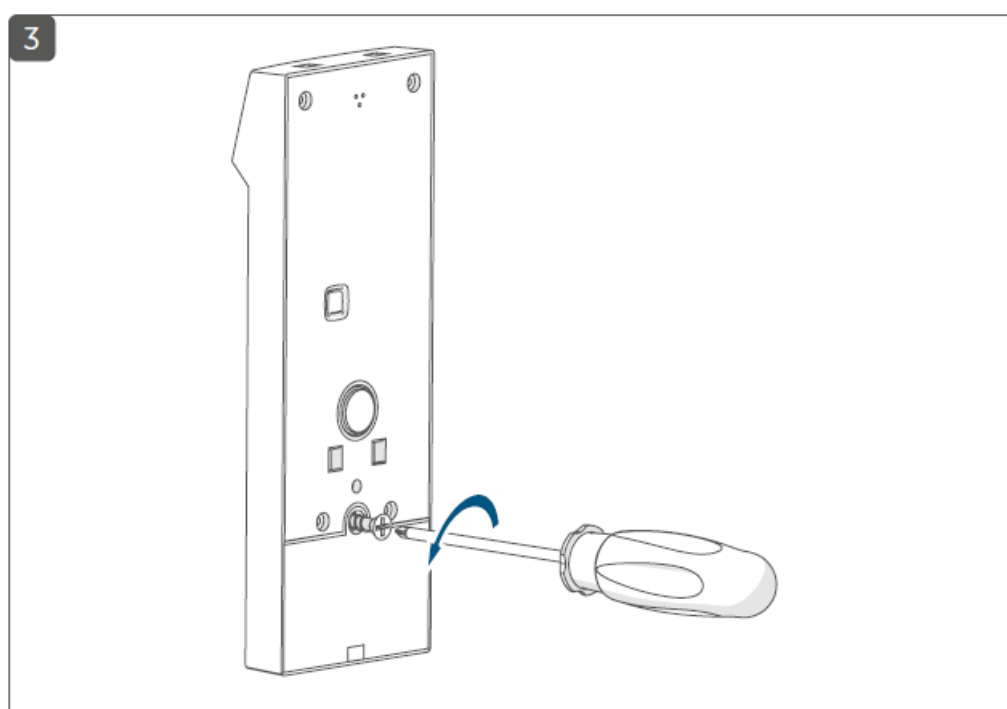
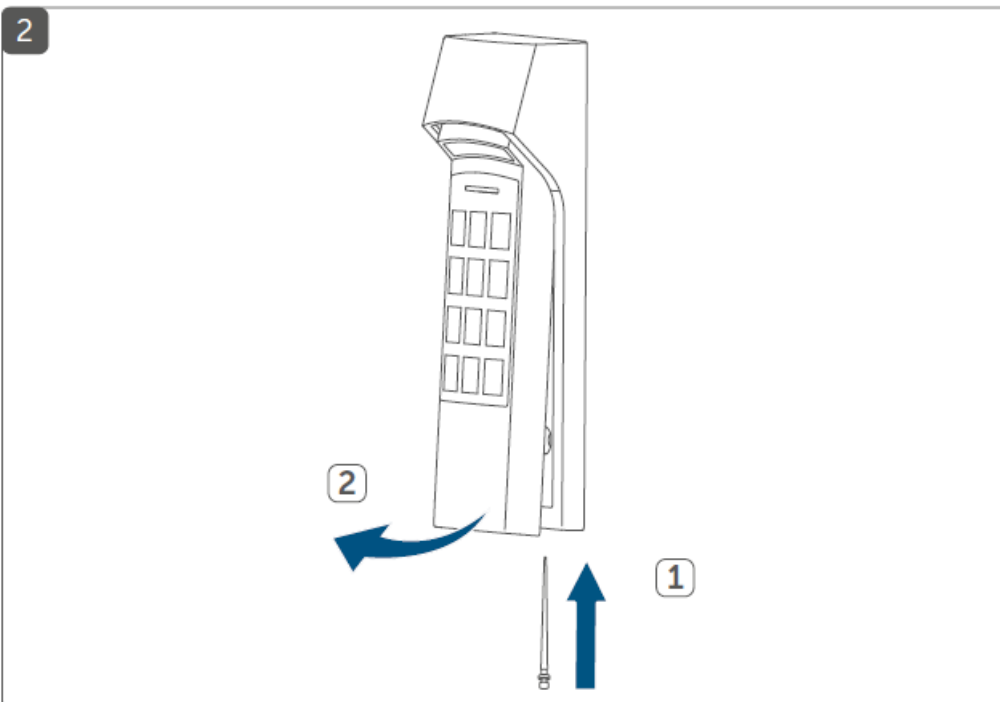
You can start the pairing mode manually for another 3 minutes by briefly pressing the system button (H).

- Close the battery compartment (J) and tighten the screw on the battery compartment cover again.
- The device automatically appears in the Homematic IP app
- To confirm, enter the last four digits of the device number (SG-TIN) in the app or scan the QR code. The device number can be found on the sticker supplied or attached to the device.
- Please wait until the pairing is completed.
- If the pairing was successful, the device LED (G) lights up green. The device is now ready for use

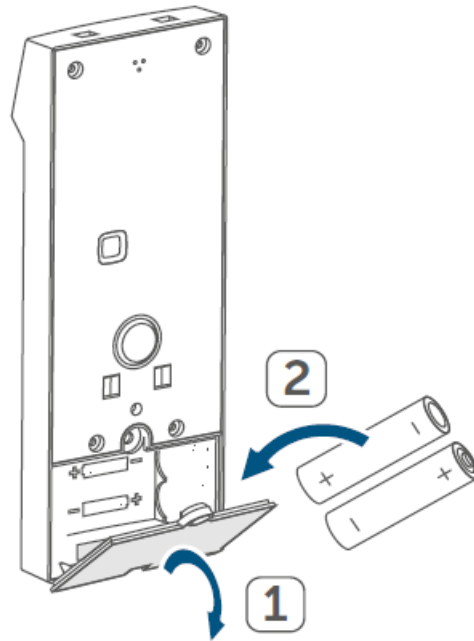
#### **If the device LED lights up red, please try again**

- In the app, give the device a name and allocate it to a room.
- Set up access using the free Homematic IP app.
- Only insert the Keypad into the wall bracket after installation.

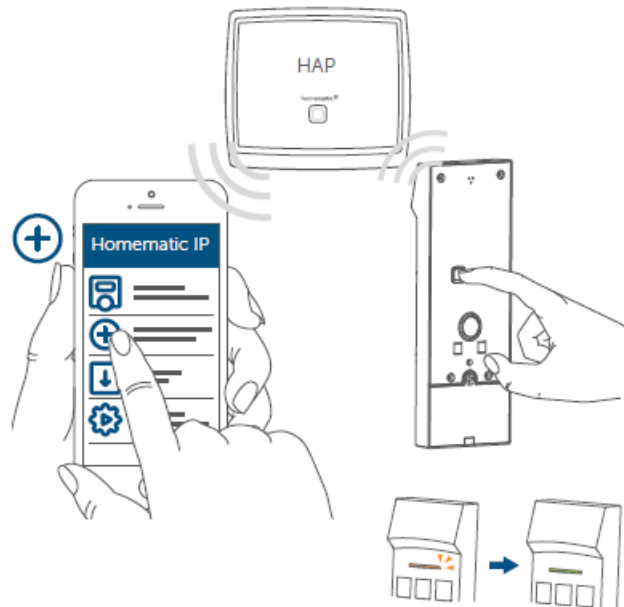
## **Installation**



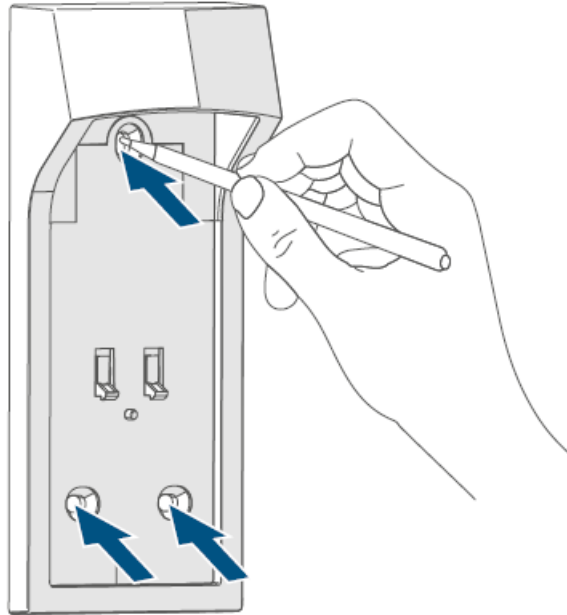
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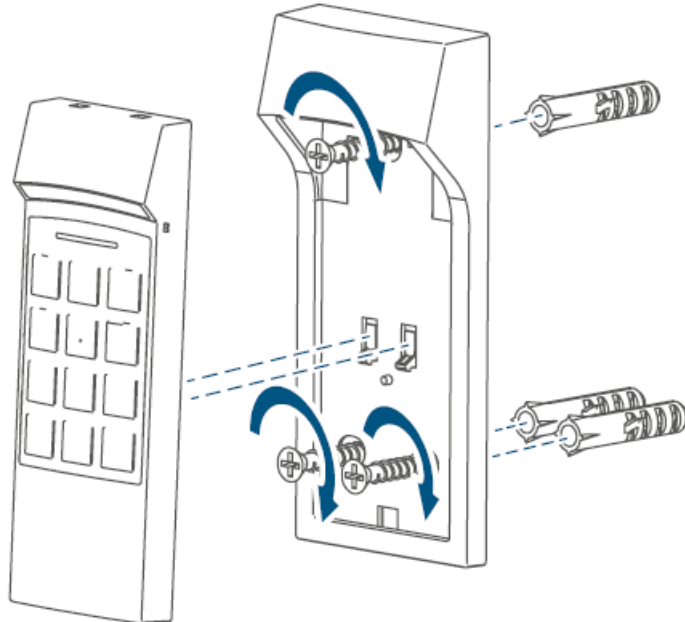
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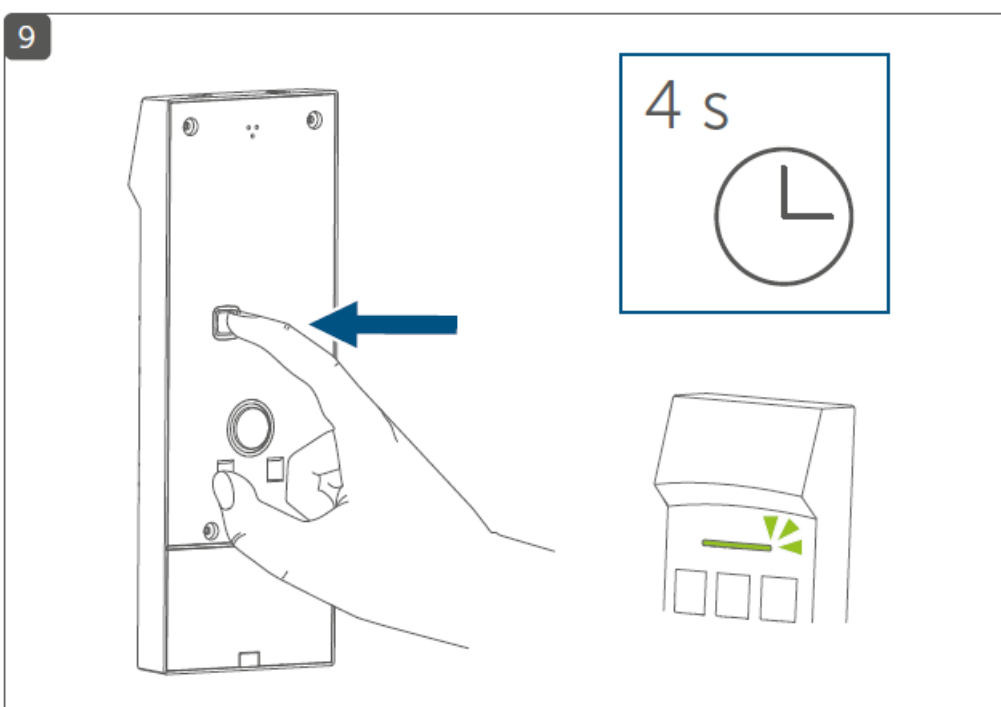
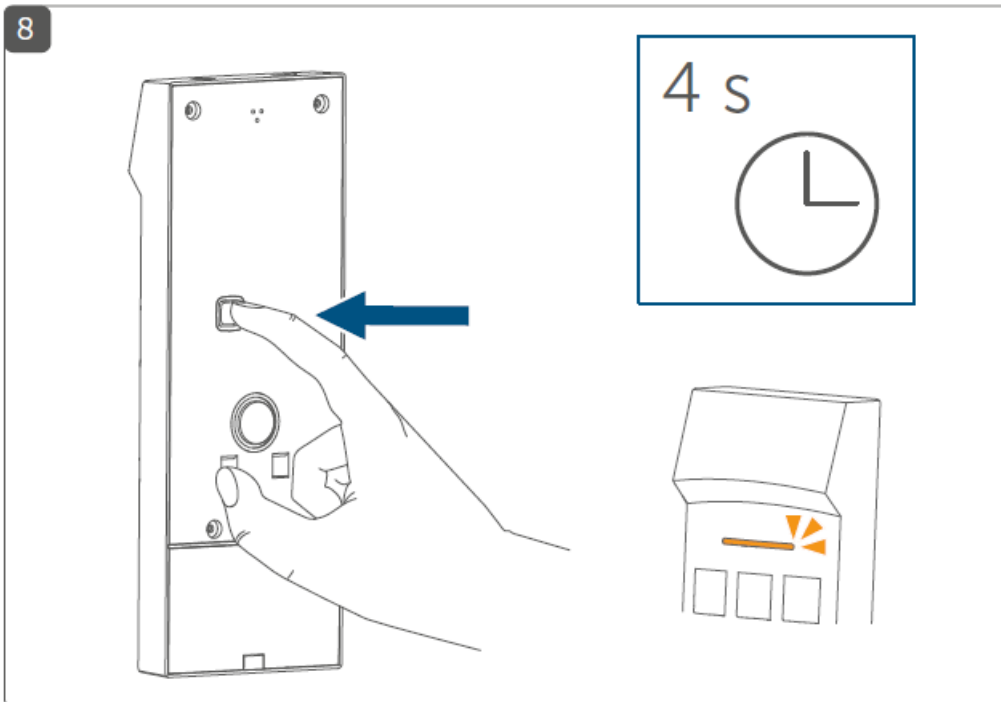
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7







The Keypad housing has a drainage hole (K). Open it with a sharp tool if necessary. Please read this entire section before starting the installation.

#### Installing the wall bracket

- When selecting a mounting location and drilling in the vicinity of switches or socket outlets, check for electrical wires and power supply cables.
- The mounting location should be protected from the weather and not exposed to direct sunlight or other sources of heat radiation.

**To install the wall bracket (A), proceed as follows:**

- Choose a suitable site for installation.

- Remove the keypad (B) from the wall bracket (A), by inserting a thin object into the hole on the bottom of the wall bracket and releasing the latch (M)

If you have already paired the unit, you will receive a tamper message within the app. You can only acknowledge this after the installation has been completed and the Keypad has been reinserted.

- Position the wall bracket (A) with the beveled surface facing upwards at a suitable place on the wall and mark the drill holes
- Drill the pre-marked holes with a diameter of 5 mm and a depth of 35 mm.

If you are working with a stone wall, use a 5 mm drill bit for the wall plugs supplied. If you are working with wooden walls, you can use a 1.5 mm drill bit to make it easier to screw in the screws. When selecting a mounting location and drilling in the vicinity of switches or socket outlets, check for electrical wires and power supply cables.

- Mount the wall bracket using the wall plugs and screws provided
- Insert the Keypad (B) back in the wall bracket (A). A latching sound indicates whether the keypad has been inserted correctly

If you have already paired the device, you can now acknowledge the tampered message in your app.

## Operation

After you have paired the Homematic IP Keypad to the Access Point and set it up via the app (see „5.1 Pairing“ on page 27), you can conveniently control the access function in combination with the Homematic IP door lock drive. To do this, enter your PIN on the Keypad (C) and select the desired action by pressing the “Lock” (D) or “Unlock” (E). Depending on the selected function, the Homematic IP Door lock drive reacts and locks or unlocks the front door.

## Keypad illumination

Directly above the Keypad panel (C) is the slightly beveled surface of the proximity sensor (F). When your hand approaches the Keypad, the integrated proximity sensor reacts, and the Keypad illumination is switched on. This means you can always make out the keypad panel of your Keypad even in dim outdoor lighting.

## Changing the batteries

If the battery symbol is displayed via the app or an empty battery is indicated on the device (see „7.5 Error codes and flashing sequences“ on page 33), replace the two used batteries with two new LR03/Micro/AAA batteries. Take care to observe the correct battery polarity.

### To replace the Keypad batteries, please proceed as follows:

- Remove the Keypad (B) from the wall bracket (A), by inserting a thin object into the hole on the bottom of the wall bracket and releasing the latch (M)

You will now receive a tamper message in your app. This can only be acknowledged when the Keypad has been reinserted in the wall bracket after replacing the batteries.

- Open the rear battery compartment (J) of the Keypad (B), by loosening the screw of the battery compartment

cover

- Remove the used batteries.
- Insert two new 1.5 V LR03/micro/batteries into the battery compartment, making sure that you do so with the correct polarity
- Close the battery compartment and tighten the screw on the battery compartment cover again.
- Insert the Keypad back in the wall bracket (A).

You can now acknowledge the tampered message in your app. Used batteries should not be disposed of with regular domestic waste! Instead, take them to your local battery disposal point.

## **Caution**

There is a risk of explosion if the batteries are not replaced correctly. Replace only with the same or equivalent type. Never re-charge non-rechargeable batteries. Do not throw the batteries into a fire. Do not expose batteries to excessive heat. Do not short-circuit batteries. Doing so will present a risk of explosion.

## **Troubleshooting**

### **Low battery**

Provided that the voltage value permits it, the Keypad will remain ready for operation even if the battery voltage is low. Depending on the load, it may be possible to transmit several times again once the batteries have been allowed a brief recovery period. If the battery voltage is too low, this will be displayed in the Homematic IP app and directly on the device via the LED (G). In this case, replace the used batteries with new ones (see „6 Changing the batteries“ on page 31).

### **Incorrect pin entry**

You define in the Homematic IP app how often a PIN code can be entered incorrectly before the Keypad is locked. Once the Keypad is locked, you can only reactivate it via the app. There is also a factory-set off time for re-entering the PIN code. After the second incorrect entry, this off time is automatically increased by 15 (30, 60, 120) seconds.

### **Command not confirmed**

If at least one receiver does not confirm a command, the device LED (G) lights up red at the end of the failed transmission process (depending on the cause, the LED may light up with a delay of up to 10 sec). The failed transmission may be caused by radio interference (see „10 General information about radio operation“ on page 36). This may be caused by the following:

- The receiver cannot be reached.
- The receiver is unable to execute the command (load failure, mechanical blockade, etc.).
- Receiver is faulty.

### **Duty cycle**

The duty cycle is a legally regulated limit of the transmission time of devices in the 868 MHz range. The aim of this regulation is to safeguard the operation of all devices working in the 868 MHz range. In the 868 MHz frequency range we use, the maximum transmission time of any device is 1% of an hour (i.e. 36 seconds in an hour). Devices must cease transmission when they reach the 1% limit until this time restriction comes to an end.

Homematic IP devices are designed and produced with 100% conformity to this regulation. During normal operation, the duty cycle is not usually reached. However, repeated and radio-intensive pairing processes mean that it may be reached in isolated instances during the start-up or initial installation of a system. If the duty cycle limit is exceeded, this is indicated by the LED (G) emitting a long red flash, and the device may temporarily not function. The device will start working correctly again after a short period (max. 1 hour).

## Error codes and flashing sequences

Flashing code	Meaning	Solution
Rapid orange flashing	Radio transmission/ configuration data is transmitted	Wait until the transmission is completed.
1x long green flash	Transmission confirmed	You can continue operation.
Slow orange flashing followed by a long red flash	Transmission failed	Try again

1x long red flash	PIN incorrect or not authorized at the current time	Re-enter the PIN to check its correctness or whether you are authorized at the current time
	/	/
	Entry temporarily or permanently locked	Temporary or permanent lock after incorrect entry; reset the permanent lock in the app
	/	/
	Duty cycle	Try again
Short orange flashing (every 10 s)	Pairing mode active	Enter the last four numbers of the device serial number to confirm
Short orange lighting (after green or red confirmation)	Battery empty	Replace the batteries
1x orange and 1x green flash (after inserting batteries)	Test display	You can continue once the test display has stopped.
Long and short orange flashing (alternating)	Software update (OTAU)	Wait until the update is completed.
6x short red flashing of the device LED (G)	Tamper message	Insert the Keypad (B) into the mounting plate (A) and acknowledge the tampered message in your app.

## Restoring factory settings

The device's factory settings can be restored. If you do this, you will lose all your settings.

**To restore the Keypad's factory settings, proceed as follows:**

- Remove the Keypad (B) from the wall bracket (A), by inserting a thin object into the hole on the bottom of the

wall bracket and releasing the latch (M)

- Open the Keypad's rear battery compartment (J) by loosening the screw on the battery compartment cover
- Remove one battery.
- Insert the battery with the correct polarity and press and simultaneously hold down the system button (H) for 4 seconds, until the LED (G) starts rapidly flashing orange
- Release the system button.
- Press and hold down the system button again for 4 seconds, until the LED lights up green
- Release the system button again to conclude the procedure.

The device will perform a restart.

## **Maintenance and cleaning**

The device does not require you to carry out any maintenance other than replacing the battery when necessary. Enlist the help of an expert to carry out any repairs. Clean the device using a soft, lint-free cloth that is clean and dry. Do not use any detergents containing solvents, as they could corrode the plastic housing and label.

## **General information about radio operation**

Radio transmission is performed on a non-exclusive transmission path, which means that there is a possibility of interference occurring. Interference can also be caused by switching operations, electrical motors, or defective electrical devices. The transmission range within buildings can differ greatly from that available in the open air. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity have an important role to play, as do on-site structural/screening conditions. Hereby, eQ-3 AG, Marburger Str. 29, 26789 Leer/Germany declares that the radio equipment type Homematic IP HmIP-WKP 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.homematic-ip.com](http://www.homematic-ip.com)

## **Technical specifications**

- Device short description: HmIP-WKP
- Supply voltage: 2x 1.5 V LR03/micro/AAA
- Battery life: 2 years (typically)
- Current consumption: 60 mA max.
- Protection rating: IP44
- Ambient temperature: -20 to 55 °C
- Dimensions (W x H x D): 71 x 161 x 29 mm
- Weight: 137 g (incl. batteries)
- Radiofrequency band: 868.0–868.6 MHz 869.4–869.65 MHz
- Max. radio transmission power: 10 dBm
- Typical radio free-field range: 200 m
- Receiver category: SRD category 2
- Duty cycle: < 1 % per h/< 10 % per h

## **Subject to technical changes**


## **Instructions for disposal**

Do not dispose of the device with normal domestic waste! Electronic equipment must be disposed of at local collection points for waste electronic equipment in compliance with the Waste Electrical and Electronic Equipment Directive.

## Information about conformity

The CE mark is a free trademark that is intended exclusively for the authorities and does not imply any assurance of properties. For technical support, please contact your retailer.

## Documents / Resources

	<p><a href="#">Homematic IP HmIP-WKP Smart Home Keypad [pdf] User Manual</a> HmIP-WKP, Smart Home Keypad, HmIP-WKP Smart Home Keypad</p>
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## References

- [e Startseite - eQ-3](#)
- [IP Home page | Homematic IP](#)