homematic HMIP-PS Pluggable Switch User Manual

Contents

homematic IP

homematic HMIP-PS Pluggable Switch

Information about this manual

Please read this manual carefully before beginning op-eration with your Homematic IP components. 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 the operating manual as well.

Symbols used:

- **Attention!**
  This indicates a hazard.

- **Note.**
  This section contains important additional information!

Hazard information

- We do not assume any liability for damage to property or personal injury caused by improper use or the failure to observe the hazard information. In such cases, any claim under warranty is extinguished! For consequential damages, we assume no liability!
- Do not open the device. It does not contain any parts that can be maintained by the user. There is a risk of electric shock if the device is opened.

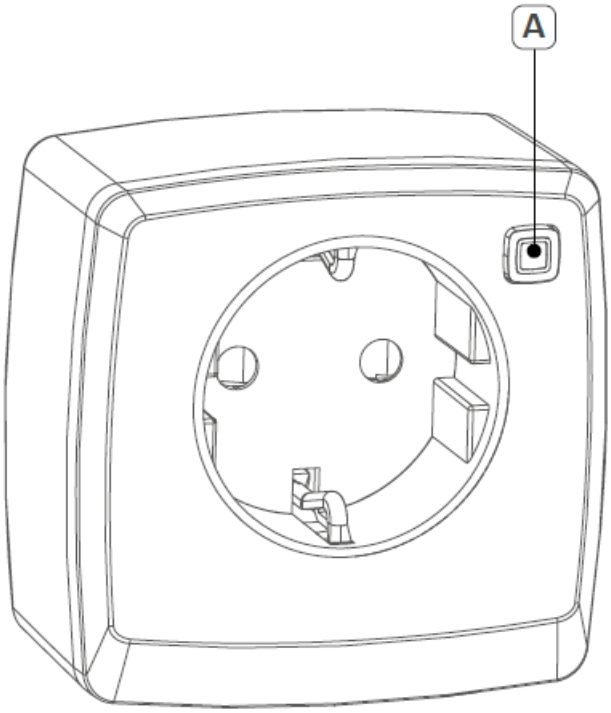
- In the event of an error, please have the device checked by an expert.
- Do not use the device if there are signs of dam-age to the housing, control elements or connecting sockets, for example, or if it demonstrates a malfunction. If you have any doubts, have the device checked by an expert.
- For safety and licensing reasons (CE), unauthorized change and/or modification of the device is not permitted.
- The device may only be operated indoors and must be protected from the effects of moisture, vibrations, solar or other methods of heat radiation, cold and mechanical loads.
- 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.
- Please take the technical data (in particular the maximum permissible switching capacity of the relay and the type of load to be connected) into account before connecting a load! All load data relates to ohmic loads! Do not exceed the capacity specified for the device. Exceeding this capacity could lead to the destruction of the device, to a fire or to an electrical accident.
- The device may only be connected to an easily accessible power socket outlet. In case of danger, disconnect the device from the power socket outlet.
- Only use the device with properly installed wall outlets with earth contacts and not with multiple socket outlets or extension cables.
- Do not connect devices to the pluggable switch which could cause fire or other types of damage in unattended operation (e.g. irons).
- Remove the plug of the connected device from the switch, whenever you make changes or modifications to the device.
- Always lay cables in such a way that they do not become a risk to people and domestic animals.
- The device has not been designed to support safety disconnection. The load is not isolated from the mains.
- Before cleaning the device, unplug it from the socket outlet. Use a dry linen cloth to clean the device. If the device is particularly dirty, you can slightly dampen the cloth to clean it. Do not use any detergents containing solvents for cleaning purposes. Make sure that no moisture will ingress into the housing.
- Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and shall invali-date any warranty or liability. This also applies to any conversion or modification work. The device is intended for private use only.
- Do not connect multiple pluggable switch-es into one another.
- Devices with electronic power supply units (e.g. TV or high voltage LED light sources) are no ohmic loads. They can generate inrush currents with more than 100 A. Switching such kind of loads may lead to premature wear of the actuator.
- The device may only be operated within residential buildings.

Function and device overview

With the Homematic IP Pluggable Switch you can comfort-ably switch on and off connected loads via the Homemat-ic IP app or directly from the device.
The pluggable switch is connected quickly and without any tools. Simply plug in the device to a socket and it is im-mediately ready for use. Thanks to the compact design, the pluggable switch does not block the surrounding sockets.

Device overview:

System button (teaching-in, switching connected loads on and off, LED)



General system information

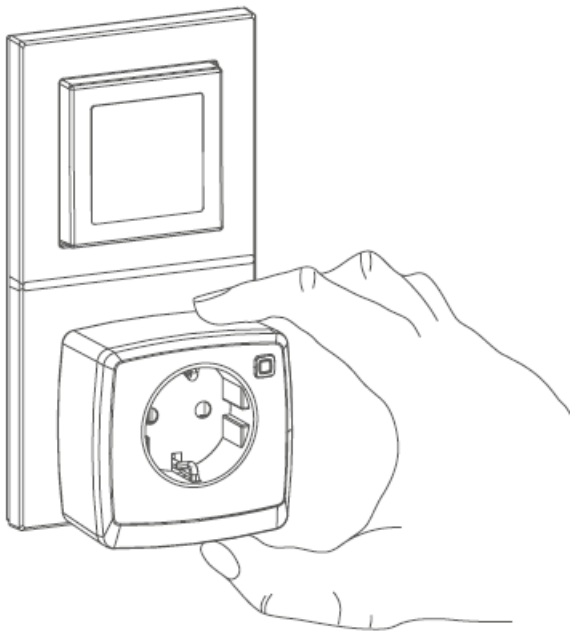
This device is part of the Homematic IP smart home sys-tem and works with the Homematic IP radio protocol. All Homematic IP devices can be configured comfortably and individually with a smartphone via the Homematic IP app. The available functions provided by the Home-matic IP system in combination with other components are described in the Homematic IP User Guide. All cur-rent technical documents and updates are provided at www.eQ-3.de.

Start-up

Installation and teaching-in

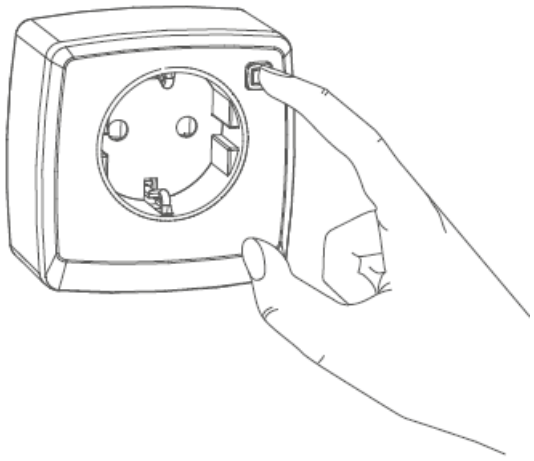
Please read this entire section before starting the teach-in procedure.
First set up your Homematic IP Access Point via the Homematic IP app to enable operation of other Homematic IP devices within your system. For further information, please refer to the oper-ating manual of the Access Point.
To integrate the pluggable switch into your system and enable it to communicate with other Homematic IP de-vices, you must teach-in the device to your Homemat-ic IP Access Point first.
To teach-in the pluggable switch, please proceed as follows:

- Open the Homematic IP app on your smart-phone.
- Select the menu item “Teach-in device”.
- Plug in the switch into the desired socket .



- Teach-in mode remains activated for 3 minutes.

You can manually start the teach-in mode for an-other 3 minutes by pressing the system button (A) shortly.



- Your device will automatically appear in the Home-matic IP app.
- To confirm, please enter the last four digits of the device number (SGTIN) in your app or scan the QR code. Therefore, please see the sticker supplied or attached to the device.
- Please wait until teach-in is completed.
- If teaching-in was successful, the LED lights up green.
- If the LED lights up red, please try again.
- Select the desired solution for your device.
- In the app, give the device a name and allocate it to a room.

After teaching-in, loads such as electric heaters can be easily connected to the pluggable switch. Connected loads can then be switched on and off.

Operation

After teaching-in and installing have been performed, simple operations are available directly on the device.

- Press the system button (A) shortly to switch on and off connected loads.

Improper usage or a defective installation (e.g. low-quality or defective plugs or sockets) can lead to overheating of the pluggable switch. The integrated temperature control automatically switches off the load. The devices is protected against overheating and secure operation is en-sured. As soon as the temperature reaches a non-critical value, you can switch on the pluggable switch again. Always observe the permitted ambi-ent temperature of the device and, if necessary, have the installation checked for possible error sources by an expert.

Behaviour after power recovery

After the device has been inserted to a socket or after pow-er recovery the pluggable switch performs a self-test/re-start (approx. 2 seconds). The device LED flashes orange and green briefly (LED test display). The LED will flash if an error is detected during this test (see “8.3 Error codes and flashing sequences” on page 34). This is repeated continuously and the device does not perform its function. If the test is completed without errors, the device transmits a wireless telegram containing its status information.

Troubleshooting

Command not confirmed

If at least one receiver does not confirm a command, the device LED lights up red at the end of the failed trans-mission process. The failed transmission may be caused by radio interference (see “11 General information about radio operation” on page 37). This may be caused be the following:

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

Duty cycle

The duty cycle is a legally regulated limit of the transmis-sion 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 teach-in processes mean that it may be reached in isolated in-stances during start-up or initial installation of a system. If the duty cycle is exceeded, this is indicated by three long flashes of the device LED, and may manifest itself in the device temporarily working incorrectly. The device starts working correctly again after a short period (max. 1 hour).

Error codes and flashing sequences

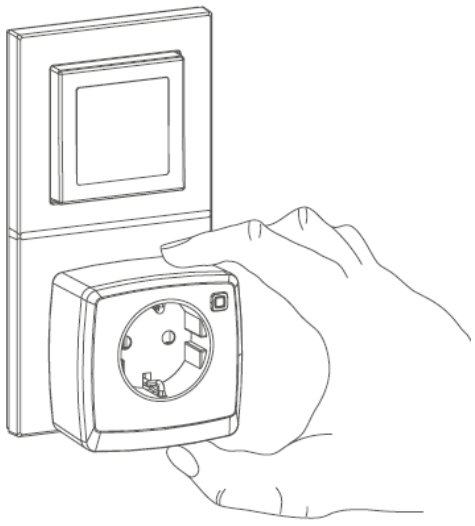
Flashing code	Meaning	Solution
Short orange flashing	Radio transmission/at-tempting to transmit	Please wait, until transmission has been confirmed.

1x long green lighting	Transmission confirmed	You can continue operation.
1x long red lighting	Transmission failed	Please try again (s. “8.1 Command not c onfirmed” on page 33).
Short orange flashing (every 10 s econds)	Teach-in mode active	Please enter the last four numbers of the device number to confirm (see “5.1 Instal la- tion and teaching- in” on page 30).
1x long red lighting	Duty cycle exceeded or transmi ssion failed	Please try again (see “8.1 Com- mand no t con- firmed” on page 33 or “8.2 Duty cyc le” on page 34).
6x long red flashing	Device defec- tive	Please see your app for error message o r contact your retailer.

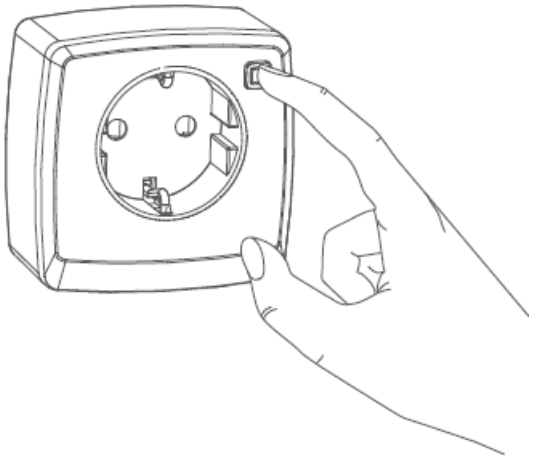
Restore factory settings

The factory settings of the device can be re-stored. If you do this, you will lose all your settings.
To restore the factory settings of the pluggable switch, please proceed as follows:

- Unplug the device from the socket.



- Plug in the device into the socket again while pressing and holding down the system button (A) for 4s at the same time, until the LED will quickly start flashing orange.



- Release the system button again.
- Press and hold down the system button again for 4s, until the status LED lights up green.

- Release the system button to finish the procedure.

The device will perform a restart.

Maintenance and cleaning

The product does not require you to carry out any maintenance. Enlist the help of an expert to carry out any maintenance or repairs.
Clean the product using a soft, lint-free cloth that is clean and dry. You may dampen the cloth a little with lukewarm water in order to remove more stubborn marks. 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 range of transmission 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.
eQ-3 AG hereby declares that this device complies with the essential requirements and other relevant regulations of Directive 1999/5/EC. You can find the full declaration of conformity at **www.eQ-3.de**.

Technical specifications

- Device short description: HMIP-PS
- Supply voltage: 230 V/50 Hz
- Current consumption: 16 A max.
- Standby power consumption: < 0.2 W
- Max. switching capacity: 3680 W
- Kind of load: ohmic load
- Life expectancy relay/switching cycle: 40000 (16 A, ohmic load)
- Relay: NO contact, 1-pole, µ contact
- Switch type: independently mounted switch
- Operating mode: S1
- Withstand voltage: 2500 V
- Protection class: I
- Method of operation: Type 1
- Degree of protection: IP20
- Ambient temperature: -10 to +35 °C
- Degree of pollution: 2
- Dimensions (W x H x D): 70 x 70 x 39 mm (not incl. mains plug)
- Weight: 154 g
- Radio frequency: 868.3 MHz/869.525 MHz
- Receiver category: SRD category 2
- Typ. open area RF range: 400 m
- Duty cycle: < 1 % per h/< 10 % per h

- Subject to technical changes.

Instructions for disposal

Do not dispose of the device with regular domes-tic waste! Electronic equipment must be dis-posed of at local collection points for waste elec-tronic equipment in compliance with the Waste Electrical and Electronic Equipment Directive.

Information about conformity

The CE sign is a free trading sign addressed exclusively to the authorities and does not include any warranty of any properties.
For technical support, please contact your retailer.
Kostenlose Download der Homematic IP App!
Free download of the Homematic IP app!
Maiburger Straße 29 26789 Leer / GERMANY
www.eQ-3.de

Documents / Resources

	homematic HMIP-PS Pluggable Switch [pdf] User Manual HMIP-PS Pluggable Switch, HMIP-PS, Pluggable Switch, Switch

References

- Startseite - eQ-3