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homematic HMIP-HAP Access Point Instruction Manual

Contents

homematic

homematic HMIP-HAP Access Point

Product Information: Homematic IP Access Point

The Homematic IP Access Point is a device that connects Homematic IP products to your home network, allowing you to control and automate your smart home. It comes with a power adapter, network cable, screws, and a user manual.

Technical Specifications

- **Power supply:** 100 V-240 V/50 Hz, 2.5 W max.
- **Power consumption in standby mode:** 1.1 W
- Dimensions (W x H x D): 118 x 104 x 26 mm
- Weight: 153 g
- Frequency bands: 868.0-868.6 MHz and 869.4-869.65 MHz
- Maximum transmission power: 10 dBm (SRD category 2)
- Typical radio range: 400 m in an open field
- Network interface: 10/100 MBit/s, Auto-MDIX

Installation

1. Connect the Homematic IP Access Point to a power outlet using the provided power adapter.
2. Connect the Access Point to your router using the provided network cable.
3. Wait for the LED on the Access Point to turn solid blue, indicating that it has successfully connected to your network.

Usage

Once you have installed the Homematic IP Access Point, you can use it to control and automate your Homematic IP products. To do this:

1. Download and install the Homematic IP app on your smartphone or tablet.
2. Follow the in-app instructions to set up your Homematic IP products.
3. You can now use the app to control your devices, set up automation and scenes, and monitor your home.

Maintenance

The Homematic IP Access Point does not require any specific maintenance other than keeping it clean and free of dust. It should be kept away from moisture and extreme temperatures. If you need to reset the Access Point to its factory settings, refer to the user manual for instructions.

General Notes

When positioning the Homematic IP Access Point, keep it at least 50 cm away from your Wi-Fi router to prevent interference. Refer to the user manual for more information on proper usage and safety.

Package contents

Quantity Description

- 1 Homematic IP Access Point
- 1 Plug-in mains adapter
- 1 Network cable
- 2 Screws
- 2 Plugs
- 1 User manual

Information about this manual

Read this manual carefully before beginning operation 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, hand over this manual as well.

Symbols used:

Attention!
This indicates a hazard.

Please 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!

Homematic IP – Smart Living, Simply Exciting.

With Homematic IP, you can install your smart home solution in just a few little steps.

The Homematic IP Access Point is the central element of the Homematic IP smart home system and communicates with the Homematic IP radio protocol. You can add up to 80 Homematic IP devices using the Access Point. If an additional Access Point is used, the maximum number of units increases by 40 to a total of 120 units. A maximum of two Access Points can be combined.
All devices of the Homematic IP system can be configured comfortably and individually with a smartphone via the Homematic IP app. The available functions provided by the Homematic IP system in combination with other

components are described in the Homematic IP User Guide.
All current technical documents and updates are provided at **www.homematic-ip-com**.
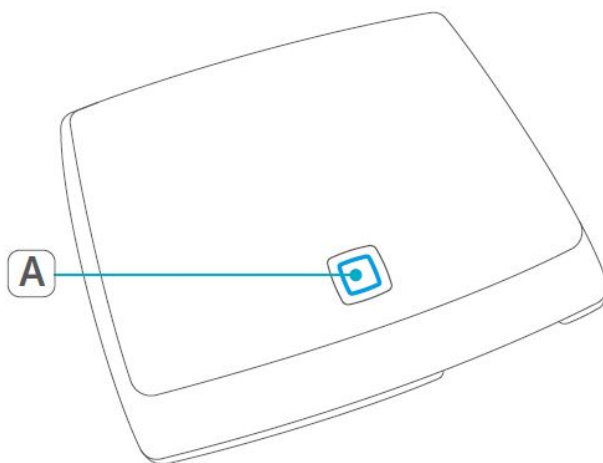
Function and device overview

The Homematic IP Access Point is the central unit of the Homematic IP system.
It connects smartphones via the Homematic IP cloud with all Homematic IP devices and transmits configuration data and control commands from the app to all Homematic IP devices. You can simply adjust your smart home control to your personal needs at any time and place.
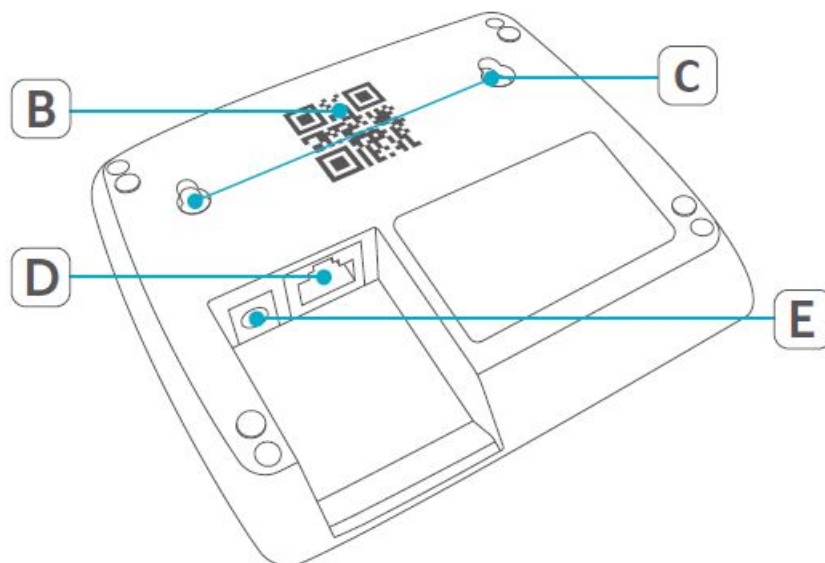
Device overview

Front

- **(A)** System button and LED

Back

- **(B)** QR code and device number (SGTIN)
- **(C)** Screw holes
- **(D)** Interface: Network cable
- **(E)** Interface: Plug-in mains adapter

Start-up

This chapter describes how to set up your Homematic IP system step by step.
First install the Homematic IP app on your smartphone and set up your Access Point as described in the following section. Once your Access Point has been set up successfully, you can add and integrate new Homematic IP devices to your system.
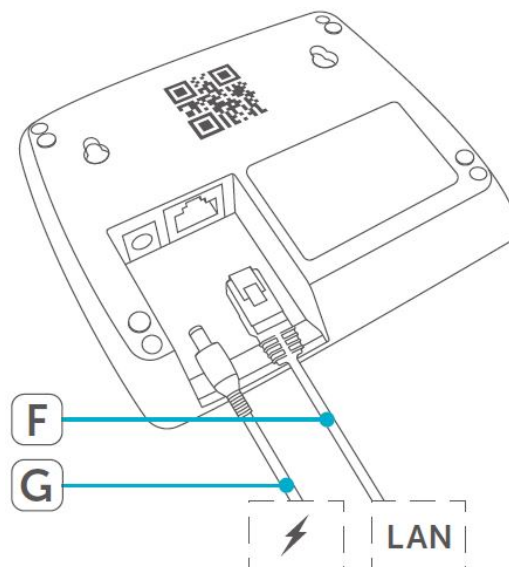
Set-up and mounting of the Access Point
The Homematic IP app is available for iOS and Android and can be downloaded for free in the corresponding app stores.
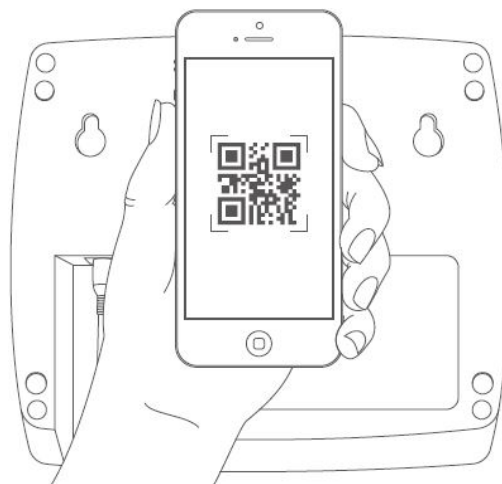
- Download the Homematic IP app in the app store and install it on your smartphone.
- Start the app.
- Place the Access Point close to your router and a socket.
  Always keep a minimum distance of 50 cm between the Homematic IP Access Point and your WLAN router.
- Connect the Access Point with the router using the supplied network cable (F). Provide power supply for the device using the supplied plug-in mains adapter (G).

- Scan the QR code (B) on the back side of your Access Point. You can also enter the device number (SGTIN) (B) of your Access Point manually.

- Please confirm in the app if the LED of your Access Point lights up permanently blue.
  If the LED lights up differently, please follow the instructions in the app or see "6.3 Error codes and flashing sequences" on page 37.
- The Access Point is registered to the server. This may take a few minutes. Please wait.

- After successful registration, please press the system button of your Access Point for confirmation.
- Pairing will be carried out.
- The Access Point is now set up and immediately ready for use.

First steps: Connecting devices and adding rooms

As soon as your Homematic IP Access Point and the Homematic IP app are ready for use, you can connect additional Homematic IP devices and allocate them in the app to different rooms.

- Tap on the main menu symbol at the bottom right of the app homescreen and select the menu item "Add device".
- Establish the power supply of the device you want to add, in order to activate the pair mode. For further information, please refer to the operating manual of the corresponding device.
- Follow the instructions of the app step by step.
- Select the desired solution for your device.
- In the app, give the device a name and create a new room or allocate the device to an existing room.

Please define the device names very carefully in order to avoid assignment errors when using various devices of the same type. You can change the device and room names at any time.

Operation and configuration

After having connected your Homematic IP devices and allocated them to rooms, they will be you can comfortably control and configure your Homematic IP system.
For further information about operation via the app and configuration of the Homematic IP system, please refer to the Homematic IP User Guide (available in the download area at **www.homematic-ip.com**).

Troubleshooting

Command not confirmed

If at least one receiver does not confirm a command, this may be caused by radio interference (see "9 General information about radio operation" on page 42). The error will be displayed in the app and may be cause by the follow:

- 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 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 pair processes mean that it may be reached in isolated instances during start-up or initial installation of a system. If the duty cycle limit is exceeded, the device may stop working for a brief period. The device starts working correctly again after a short period (max. 1 hour).

Error codes and flashing sequences

Flashing code	Meaning	Solution
Permanent orange lighting	Access Point is starting	Please wait shortly and observe the subsequent flashing behaviour.
Fast blue flashing	Connection to the server is be- ing established	Wait until the connection is established and the LED lights are permanently blue.
Permanent blue lighting	Normal operation, connection to the server is established	You can continue the operation.

Fast yellow flashing	No connection to network or router	Connect the Access Point to the network/router.
Permanent yellow lighting	No Internet connection	Please check the Internet connection and firewall settings.
Permanent turquoise lighting	Router function active (for operation with several Access Points/ Central Control Units)	Please continue the operation.

Fast turquoise flashing	No connection to Central Control Unit (only when operating with CCU3)	Check the network connection of your CCU
Alternately long and short orange flashing	Update in progress	Please wait until the update has been completed
Fast red flashing	Error during update	Please check the server and Internet connection. Restart the Access Point.

Fast orange flashing	Stage before restoring the factory settings	Press and hold down the system button again for 4 seconds, until the LED lights up green.
1x long green lighting	Reset confirmed	You can continue the operation.
1x long red lighting	Reset failed	Please try again.

Restore factory settings

The factory settings of your Access Point as well as of your entire installation can be restored. The operations distinguish as follows:

- Resetting the Access Point:

Here, only the factory settings of the Access Point will be restored. The entire installation will not be deleted.

- Resetting and deleting the entire installation: Here, the entire installation is reset. Afterward, the app has to be uninstalled and reinstalled. The factory settings of your single Homematic IP devices have to be restored to enable them to be connected again.

Resetting the Access Point
To restore the factory settings of the Access Point, please proceed as follows:

- Disconnect the Access Point from the power supply. Therefore, unplug the mains adapter.
- Plug in the mains adapter again and press and hold down the system button for 4s at the same time, until the LED will quickly starts flashing orange.
- Release the system button again.
- Press and hold down the system button again for 4 seconds, until the LED lights up green. If the LED lights up red, please try again.
- Release the system button to finish the procedure.

The device will perform a restart and Access Point is being reset.

Resetting and deleting the entire installation
During the reset, the Access Point must be connected to the cloud so that all data can be deleted. Therefore, the network cable must be plugged in during the process and the LED must light up blue continuously afterward.

To reset the factory settings of the entire installation, the procedure described above must be performed twice in succession, within 5 minutes:

- Reset the Access Point as described above.
- Wait at least 10 seconds until the LED permanently lights up blue.
- Immediately afterward, perform the reset for the second time by disconnecting the Access Point from the power supply again and repeating the previously described steps.

After the second restart, your system will be reset.

Maintenance and cleaning

The device does not require you to carry out any maintenance. Enlist the help of an expert to carry out any maintenance or repairs.

Clean the device 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.

Hereby, eQ-3 AG, Maiburger Str. 29, 26789 Leer/Germany declares that the radio equipment type Homematic IP HMIP-HAP 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**

Product Technical specifications

- **Device short name:** HMIP-HAP

Supply voltage

- **Plug-in mains adapter (input):** 100 V-240 V/50 Hz

Power consumption

- **plug-in mains adapter:** 2.5 W max.
- **Supply voltage:** 5 VDC
- **Current consumption:** 500 mA max.

Standby

- **power consumption:** 1.1 W
- **Degree of protection:** IP20
- **Ambient temperature:** 5 to 35 °C
- **Dimensions (W x H x D):** 118 x 104 x 26 mm
- **Weight:** 153 g
- **Radio frequency band:** 868.0-868.6 MHz 869.4-869.65 MHz
- **Maxium radiated power:** 10 dBm max.
- **Receiver category:** SRD category 2
- **Typ. open area RF range:** 400 m
- **Duty cycle:** < 1 % per h/< 10 % per h
- **Network:** 10/100 MBit/s, Auto-MDIX

Subject to technical changes.

Instructions for disposal
Do not dispose of the device with regular 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 sign is a free trading sign addressed exclusively to the authorities and does not include any warranty of any properties.
For technical support, contact your specialist dealer.

Kostenloser Download der Homematic IP App!
Free download of the Homematic IP app!

Bevollmächtigter des Herstellers:
Manufacturer's authorised representative:

eQ-3 AG
Maiburger Straße 29
26789 Leer / GERMANY
www.eQ-3.de

Documents / Resources

Montage- und Bedienungsanleitung Mounting instruction and operating manual Access Point (DE) S. 2 Access Point (EN) p. 24	**homematic HMIP-HAP Access Point** [pdf] Instruction Manual HMIP-HAP, HMIP-HAP Access Point, Access Point

References

- **Startseite - eQ-3**
- **Home page | Homematic IP**

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