

homematic IP HmIP-STH Temperature and Dehumidifier **Instruction Manual**

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homematic IP HmIP-STH Temperature and Dehumidifier



Specifications

• Product Name: HmIP-STH | HmIP-STH-A

· Languages: DE, EN, FR, ES, IT, NL

• Power Source: 1.5V LR03/Micro/AAA Batteries

Product Usage Instructions

Unboxing and Setup

When unboxing, ensure the following items are included:

- 1x Sensor
- 1x Mounting Frame
- 1x Mounting Plate
- 2x Double-Sided Adhesive Strips
- 2x Screws 3.0 x 30 mm
- 2x 1.5V LR03/Micro/AAA Batteries
- 1x User Manual

Installation

Mounting Options

The sensor can be mounted using one of the following methods:

Adhesive Strip Mounting

To mount using adhesive strips:

- 1. Remove the protective film from one side of the adhesive strip.
- 2. Attach the strip to the sensor.
- 3. Remove the protective film from the other side and place the sensor in the desired location.

Screw Mounting

To mount using screws:

Use the provided screws to secure the sensor in place.

Installation in Electrical Boxes

If installing in electrical boxes:

Follow standard procedures for mounting in electrical boxes.

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- 150437 (web) | Version 1.3 (04/2024)

Package contents

- 1x Temperature and Humidity Sensor indoor
- 1x Clip-on frame
- 1x Mounting plate
- · 2x Double-sided adhesive strips
- 2x Screws 3.0 x 30 mm
- 2x Plugs 5 mm
- 2x 1.5 V LR03/micro/AAA batteries
- 1x Operating manual

Information about this manual

Please read this manual carefully befo-re operating your Homematic IP com-ponents. 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

Caution! There is a risk of explosi-on if the batteries are not replaced correctly. Replace only with the same or

equivalent type. Never recharge non-rechargeable batte-ries. 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!

- Contact with batteries that are dead or damaged can cause skin irritation. Use protective gloves in this case.
- Do not open the device. It does not contain any parts that need to be maintained by the user. In the event of an error, please 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 in a dry and dust-free environment 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.
- We accept no liability for damage to property or personal injury caused by improper use or 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 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

The Homematic IP Temperature and Humidity Sensor – indoor measures the temperature and humidity in the room. The measured values are transferred cyclically to the Homematic IP Access Point as well as to the Homematic IP app and help to regulate the room climate. Take a look at the homescreen of the app, and you will be informed about the temperature as well as the current humidity of the corresponding room. Thanks to radio operation, the device is highly flexible where mounting and selecting a mounting location are concerned. The device is mounted and removed very easily with the supplied clip-on frame using screws or adhesive strips. It is compatible with several different surfaces, including furniture, brick walls, tile, and glass. It is possible to integrate the temperature and humidity sensor into existing switches of leading manufacturers.

Device overview:

- (A) Clip-on frame
- (B) Sensor (electronic unit)
- (C) System button (pair button and LED)
- (D) Mounting plate
- (E) Adhesive strips
- (F) Letters
- (G) Holes
- (H) Bore holes

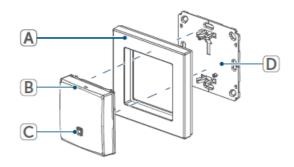


Figure 1

General system information

This device is part of the Homematic IP smart home system and works with the Homematic IP radio protocol. All devices of the system can be configured comfortably and individually with the Homematic IP smartphone app. Alternatively, you can operate the Homematic IP devices via the Homematic Central Control Unit CCU3 or in connection with various partner solutions. The available functions provided by the 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.

Start-up

Pairing

- Please read this entire section before starting the pairing procedure.
- 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.
- For more information on teaching and setting up the wall thermostat using a CCU3, please refer to the WebUI manual on our homepage at www.homematic-ip.com.
- To integrate the temperature and humidity sensor into your system and enable it to communicate with other Homematic IP devices, you must pair the device with your Homematic IP Access Point first.

To pair the temperature and humidity sensor, please proceed as follows:

- Open the Homematic IP app on your smartphone.
- · Select the menu item "Pair device".
- To remove the sensor (B) from the frame, take hold of the sides of the sensor and pull it out.

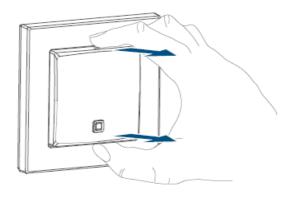


Figure 2

- Turn over the sensor.
- Remove the insulation strip from the battery compartment. Pai-ring mode remains activated for 3 minutes.

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

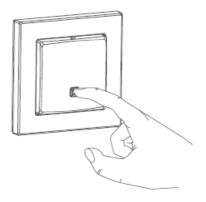


Figure 3

Your device will automatically appear in the Homematic 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 pairing is completed.
- If pairing was successful, the LED lights up green. The device is now ready for use.
- If the LED lights up red, please try again.
- Please select the application you want to use the device in.
- Allocate the device to a room and give the device a name.

Installation

Please read this entire section before starting to mount the device.

You can use the supplied clip-on frame (A) to mount the temperature and humidity sensor or easily integrate it into an existing switch (see "6.2.4 Installation in multiple combinations" on page 21).

If you want to mount the temperature and humidity sensor with the supplied clip-on frame, you can use

• the supplied double-sided adhesive strips or

• the supplied screws to fix it to a wall.

You can also mount the temperature and humidity sensor on a flush-moun-ting box.

Adhesive strip mounting

For mounting the assembled device with adhesive strips, please proceed as follows:

· Choose a site for installation.

Make sure that the mounting sur-face is smooth, solid, non-distur-bed, free of dust, grease and sol-vents and not too cold to ensure ong-time adherence.

• Fix the adhesive strips (E) on the back side of the mounting plate (D) in the provided area. You should be able to read the letters on the back side (F).

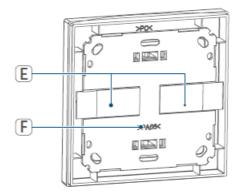


Figure 4

- Remove the protective film from the adhesive strips.
- Press the assembled temperature and humidity sensor with the back side to the wall in the position where it should subsequently be attached.

Screw mounting

For mounting the temperature and hu-midity sensor with the supplied screws, please proceed as follows:

• Choose a site for installation.

Make sure that no electricity or similar lines run along the wall at this location!

- Position the mounting plate (D) on the desired site on the wall. Make sure that the arrow on the mounting plate is pointing upwards.
- Use a pen to mark the positions of bore holes (H) (diagonally opposite) in the mounting plate on the wall.

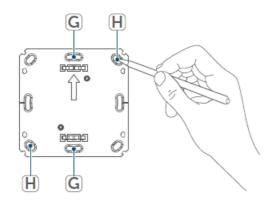


Figure 5

· Now drill the bore holes.

If you are working with a stone wall, drill the marked two 5 mm holes and insert the plugs ssuppliedlf you are working with a wooden wall, you can pre-drill 1.5 mm holes to make screws easier to insert.

• Use the supplied screws and plugs(I) to fasten the mounting plate to the wall.

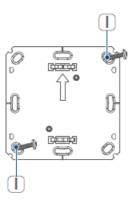
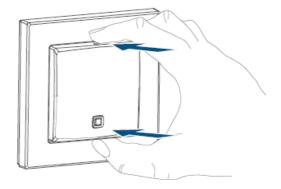


Figure 6

- Attach the clip-on frame (A) to the mounting plate.
- Place the sensor (B) back into the frame. Make sure that the clips on the mounting plate latch into the openings on the sensor.



Fiaure 7

Mounting on flush-mounted boxes

You can mount the temperature and humidity sensor on flush-mounting/installation boxes using the holes (G).

- If the device is mounted to a flush-mounting box, there may be no open conductor ends.
- If changes or works have to be made on the house installation (e.g. extension, bypass of switch- or socket inserts) or the low-voltage distribution for mounting or installing the device, the following safety instructions must

be considered as a note! Only to be installed by persons with the relevant electro-technical knowledge and experience!*

Incorrect installation can endanger

- your own life and he lives of other users of the electrical system.
- Incorrect installation also means that you are running the risk of serious property damage, e.g., because of a fire. You may be personally liable in the event of injuries or property damage.

Consult an electrician!

Specialist knowledge required for installation:

The following specialist knowledge is particularly important during installation:

- The "5 safety rules" to be used: Disconnect from mains; Safeguard from switching on again; Check that system is deenergised; Earth and short circuit; Cover or cordon off neighbouring live parts;
- Select suitable tool, measuring equipment, and, if necessary, personal safety equipment;
- · Evaluation of measuring results;
- Selection of electrical installation material for safeguarding shut-off conditions;
- IP protection types;
- Installation of electrical installation material;
- Type of supply network (TN system, IT system, TT system) and the resulting connecting conditions (classical zero balancing, protective earthing, required additional measures, etc.).

Installation in multiple combinations

You can mount the temperature and humidity sensor with the attachment frame (A) provided or use it with 55 mm frames of other manufacturers, as well as integrate the electronic unit (B) into a multi-gang frame. You can flexibly fix the mounting plate (D) to the wall using adhesive strips or screws. For mounting with multiple combinations, make sure that the mounting plate of the temperature and humidity sensor is seamlessly aligned to the already fixed mounting plate/retaining ring.

The temperature and humidity sensor is designed to fit into 55 mm frames supplied by the following manufacturers:

Manufacturer	Frame	
Berker	S.1, B.1, B.3, B.7 glass	
ELSO	Joy	
	System 55, Standard 55, E2, E22, Event,	
GIRA	Esprit	
merten	1-M, Atelier-M, M-Smart, M-Arc, M-Star, M-Plan	
JUNG	A 500, AS 500, A plus, A creation	

Changing the batteries

If an empty battery is displayed via the app or the device (see "8.4 Error codes and flashing sequences" on page 24), replace the used batteries by two new LR03/micro/AAA batteries. You must observe the correct battery polarity.

To replace the batteries of the temperature and humidity sensor, please proceed as follows:

- Once mounted, the sensor can easily be pulled out of the frame
 (A) or removed from the mounting plate (D). To remove the sensor (B) from the frame, take hold of the sides of the sensor and pull it out. seeSeegure). You do not need to open the device.
- Turn the sensor over to remove the batteries.
- Insert two new 1.5 V LR03/micro/batteries into the battery compartment, making sure that you insert them the right way round.

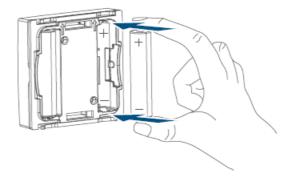


Figure 8

- Put the sensor back into the frame. Make sure that the clips on the mounting plate latch into the ope-nings on the sensor.
- Please pay attention to the flashing signals of the device LED while the batteries (see "8.4 Error codes and flashing sequences" on page 24).

Once the batteries have been inserted, the temperature and humidity sensor will perform a self-test/restart (approx. 2 seconds). Afterwards, initialisation is carried out. The LED test display will indicate that initialisation is complete by lighting up orange and green.

Caution! There is a risk of explosi-on if the battery is not replaced correctly. Replace only with the same or equivalent type. Never recharge standard batteries. Do not throw the batteries into a fire. Do not expose batteries to exces-sive 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 temperature and humidity sensor will remain ready for operation even if the battery voltage is low. Depending on the particular load, it may be possible to send transmissions again repeatedly once the batteries have been allowed a brief recovery period. If the voltage drops too far during transmission, this will be displayed on the device or via the Homematic IP app (see "8.4 Error codes and flashing sequences on page 24). In this case, replace the empty batteries with two new batteries (see "7 Changing the batteries " on page 22).

Command not confirmed

If at least one receiver does not con-firm a command, the device LED lights up red at the end of the failed transmission process. The failed transmission may be caused by radio inter-ference (see "11 General information about radio operation" on page 25).

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.).
- The receiver is defective.

Duty Cycle

The duty cycle is a legally regulated limit of the transmission time of devices in the 868 MHz range. This regulation aims 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 prprocessesean that it may result

in isolated instances during start-up or initial installation of a system. If the duty cycle is exceeded, this is indicated by one long flashing 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/attempting to tr ansmit/data transmission	Wait until the transmission is completed.
1x long green lighting	Transmission confirmed	You can continue the operation.
1x long red lighting	Transmission failed	Please try again (see "8.2 Comman d not confirmed" on page 23).
Short orange lighting (after green or red confirmation)	Batteries empty	Replace the batteries of the device (see "7 Chan- ging the batteries" on page 22).
Short orange flashing (every 10 s)	Pair mode active	Please enter the last four numbers of the device serial number to confir m (see "6.1 Pairing" on page 18).
1x long red lighting	Transmission failed, or the duty cycl e limit is reached	Please try again (see "8.2 Comman d not confirmed" on page 23) or (se e "8.3 Duty Cycle" on page 23).
6x long red flashing	Device defective	Please see your app for the error m essage or contact your retailer.
1x orange and 1 x green lighting (after in- serting b atteries)	Test display	Once the test display has stopped, you can continue.

Restoring factory settings

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

To restore the factory settings of the temperature and humidity sensor, please proceed as follows:

- To remove the sensor (B) from the frame, take hold of the sides of the sensor and pull it out. (see figure).
- · Remove one battery.
- Insert the battery, ensuring that the polarity is correct while pressing
- (see figure) and holding down the system button (C) for 4s at the same time, until the LED quickly starts flashing orange (see figure).
- · Release the system button again.
- Press and hold down the system button again for 4 seconds, 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 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 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 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 ope-rations, electrical motors or defective electrical devices.

The range of transmission within buildings can differ greatly from that available in the open air. 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, Maiburger Straße 29, 26789 Leer, Germany hereby declares that the radio equipment type Homematic IP HmIP-STH, HmIP-STH-A is compliant 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

Disposal

Instructions for disposal

This symbol means that the device and the batteries or accumulators must not be disposed of with household waste, the residual waste bin, or the yellow bin or yellow bag. For the protection of health and the environment, you must take the product, all electronic parts included in the scope of delivery, and the batteries to a municipal collection point for old electronic and electrical equipment to ensure their correct disposal. Distributors of electrical and electronic equipment or batteries must also take back obsolete equipment or batteries free of charge.

By disposing of it separately, you are making a valuable contribution to the reuse, recycling and other methods of recovery of old devices and old batte-ries.

You must separate any old batteries and accumulators of old electrical and electronic devices from the old device if they are not enclosed by the old device before handing it ocollectiontpointpose of them separately at the local collection points. Please also remember that you, the end user, are responsible for deleting personal data on any old electrical and electronic equipment before disposing of it.

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.

Technical specifications

• Device short description: HmIP-STH, HmIP-STH-A

• Supply voltage: 2x 1.5 V LR03/micro/AAA

• Current consumption: 20 mA max.

Battery life: 2 years (typ.)

• Degree of protection: IP20

• Ambient temperature: 5 to 35 °C

• Dimensions (W x H x D):

Without frame: 55 x 55 x 19 mm
Including frame: 86 x 86 x 20 mm
Weight: 85 g (including batteries)

• Radio frequency band: 868.0-868.6 MHz 869.4-869.65 MHz

Maximum radiated power: 10 dBm
Receiver category: SRD category 2
Typ. open area RF range: 130 m
Duty cycle: < 1 % per h/< 10 % per h

Subject to technical changes.

Kostenloser Download der Homematic IP App!

Free download of the Homematic IP app!



FAQ

Q: How do I change the batteries?

A: To change the batteries, follow these steps:

- 1. Open the battery compartment.
- 2. Remove the old batteries.
- 3. Insert new batteries following the correct polarity.
- 4. Close the battery compartment securely.

Documents / Resources



homematic IP HmIP-STH Temperature and Dehumidifier [pdf] Instruction Manual 591785, D591785-B, HmIP-STH, HmIP-STH-A, HmIP-STH Temperature and Dehumidifier, HmI P-STH, Temperature and Dehumidifier, Dehumidifier

References

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- User Manual

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