homematic IP

# Wall-mount Remote Control – 6-buttons, 230 V

**HmIP-WRC6-230, HmIP-WRC6-230-A**



EN Installation and Operating Manual

# Table of contents




Version 1.4

# 1 Package contents

1× Wall-mount Remote Control – 6-buttons, 230 V
2× screws (3.2 × 15 mm)
2× screws (3.2 × 25 mm)
1× mounting module
1× clip-on frame
Operating manual

# 2 Information about this manual

Read this manual carefully before beginning operation with your Homematic IP device. Keep the manual for later consultation. If you hand the device over to other persons for use, please ask them to read this manual.

**Symbols used**


This indicates a hazard.


This section contains important additional information.

# 3 Hazard information


We accept no liability for damage caused by use for other than the intended purpose, incorrect handling or failure to observe the hazard warnings. In such cases, all warranty claims are void. We accept no liability for consequential damage.


Do not use the device if it has visible damage or a malfunction. If you have any doubts, have the device checked by a qualified expert.


For safety and licensing reasons (CE), unauthorised conversions to and/or modification of the device are not permitted.


The device is not a toy – do not allow children to play with it.


Plastic film, plastic bags, polystyrene parts, etc. can be dangerous for children. Keep the packaging material out of the reach of children and dispose of it immediately.


Clean the device using a soft and dry lint-free cloth. The cloth can be slightly moistened with lukewarm water to remove more stubborn marks. Do not use solvent-based cleaning agents for cleaning, as these can damage plastic parts and labelling.


Do not expose the device to moisture, vibrations, constant solar or other heat radiation, excessive cold or mechanical loads. The device must only be operated indoors.


Overloading the device can lead to the destruction of the device, to a fire or to an electrical accident. Before connecting a load, check the technical data, in particular the maximum permissible connected load and the type of load to be connected (load types) in accordance with the instructions. Load the device only up to the specified power limit.


Loads connected to the output terminals require sufficient insulation.

The device may only be installed in the following device boxes:

- in commercially available switch sockets (device boxes) in accordance with DIN 49073-1
- In Legrand Batibox switch boxes

The device may only be operated on a 230 V~/50 Hz AC mains power supply. Work on the 230 V mains may only be carried out by a qualified electrician (in accordance with VDE 0100).

The device is part of the building installation. Observe the relevant national standards and directives during planning and set-up. The device may only be operated on a 230 V/50 Hz AC supply. Only qualified electricians (to VDE 0100) are permitted to carry out work on the 230 V mains. The applicable accident prevention regulations must be observed while such work is being carried out. To avoid electric shocks from the device, please disconnect the mains voltage (trip the miniature circuit-breaker). Non-compliance with the installation instructions can cause fire or introduce other hazards.

Observe the permissible cable types and conductor cross sections when connecting to the device terminals.

The circuit to which the device is connected must be protected by a circuit breaker in accordance with DIN EN 60898-1 (tripping characteristic B or C, max. 16 A rated current, min. 6 kA interrupting rating, energy limiting class 3). The installation regulations in accordance with VDE 0100 and HD384 or IEC 60364 must be observed. The circuit breaker must be easily accessible to the user and marked as the disconnecting device for the actuator.

# 4 General system information

This device forms part of the Homematic IP Smart Home system and communicates via the Homematic IP radio protocol. All devices of the system can be configured comfortably and individually using the Homematic IP App. Operation requires the connection to a Homematic IP Access Point or . Further information about the system and how to combine it with other Homematic IP devices is to be found in the Homematic IP User guide.

All technical documents and updates are to be found at www.homematic-ip.com.

# 5 Function and device overview

The Homematic IP Wall-mount Remote Control – 6 channels, 230 V has six buttons and can be used flexibly within the Homematic IP system to control devices and functions.

The buttons enable the convenient control of devices and system functions within your smart home: for example, switching light sources on and off, activating and deactivating Eco mode, and raising and lowering roller shutters.

Next to each of the buttons is an integrated status LED that can light up, flash or pulsate in seven different colours. The LEDs can be used to display a wide range of system states such as actual alarm mode, switched-on lights and open windows.

The wall-mount remote control has exchangeable labelling fields for individual labelling according to the functions required. The labelling fields can be amended for later changes. Different labelling templates are available in the download area at www.homematic-ip.com.

The device is installed in a device box in accordance with DIN 49073-1.

You can use the device with the frame supplied as well as with frames from other manufacturers or integrate the device into a multiple frame.

**Device overview**

A) Clip-on frame
B) LEDs (channel 7–13)
C) System button (device LED)
D) Label field
E) Button pair 1 (channel 1)
F) Button pair 2 (channel 3)
G) Button pair 3 (channel 5)
H) Connecting terminal for 1 ↓ (lamp/corresponding supply cable (normally open))
I) Connecting terminal for L ↑ (phase conductor)
J) Connecting terminal for N (neutral conductor)
K) Connecting terminal for S1 (extension input)

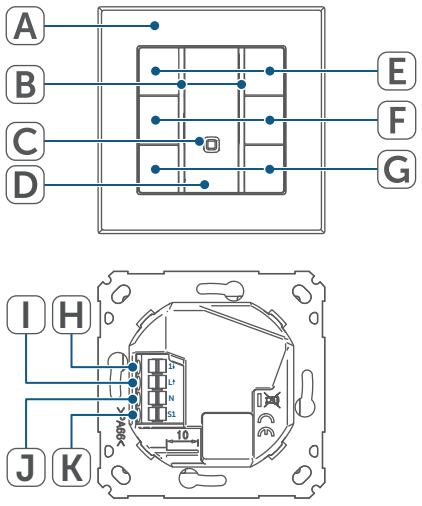


*Figure 1*

# 6 Start-up

## 6.1 Installation instructions

Read this section completely before starting installation.

Make a note of the device number (SGTIN) and the installation location of the device before installation to make it easier to identify the device later. The device number can also be found on the enclosed QR code sticker.

Please observe the hazard warnings during installation *see Hazard information, page 3*.

Please note the insulation stripping length of the conductor being connected, as indicated on the device.

The device may only be installed in the following device boxes:

- in commercially available switch sockets (device boxes) in accordance with DIN 49073-1
- In Legrand Batibox switch boxes

It is absolutely essential to ensure that the connecting cables are laid so that they are physically separate from cables carrying mains voltage (e.g. in separate cable ducts or wiring conduits).

If changes to or work on the house installation are necessary (e.g. extension, bypass of switch or socket inserts) or to/on the low-voltage distribution system for mounting or installing the device, the following safety instructions must be observed:

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

Incorrect installation can endanger

- your own life,
- and the lives of other users of the electrical system.

Incorrect installation also means that you are running the risk of serious damage to property, e.g. due to fire. You risk personal liability for personal injury and property damage.

***Specialist knowledge required for installation:**

The following specialist knowledge is particularly important during installation:

- The “5 safety rules” to be used:
  - Disconnect from mains
  - Secure against restart
  - Check for absence of voltage
  - Earth and short circuit
  - Cover or cordon off neighbouring live parts
- Selection of suitable tools, measuring equipment and, if necessary, personal protective 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 connection conditions (classic zero balancing, protective earthing, required additional measures, etc.).

**Permitted cable cross sections for connecting to the device are:**

rigid cable, 0.75 - 2.5 mm²
flexible cable (with and without ferrule), 0.75 - 2.5 mm²

## 6.2 Installation

Install the device as follows:

- Switch off the fuse of the power circuit.
- Remove the cover of your existing switch.

Use a flat pointed object, e.g. a flat-blade screwdriver, to make disassembly easier.

- Disconnect the wiring and remove the existing switch.
- Connect the phase conductor to connecting terminal L of the Mounting Module.
- Connect the neutral conductor to connecting terminal N of the Mounting Module.
- Connect the cable the lamp to connecting terminal 1 of the Mounting Module.

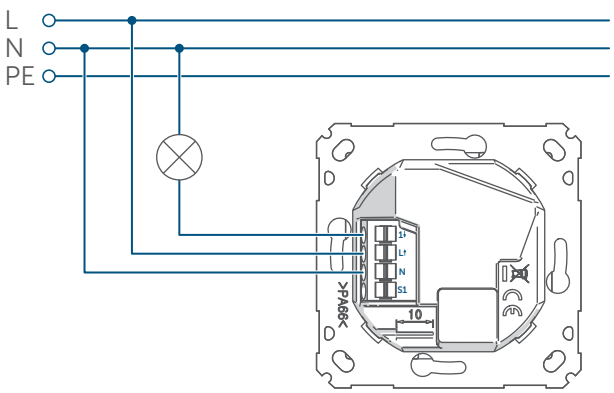


*Figure 2*

- Optional: Connect the extension input to connection terminal S1 of the Mounting Module.

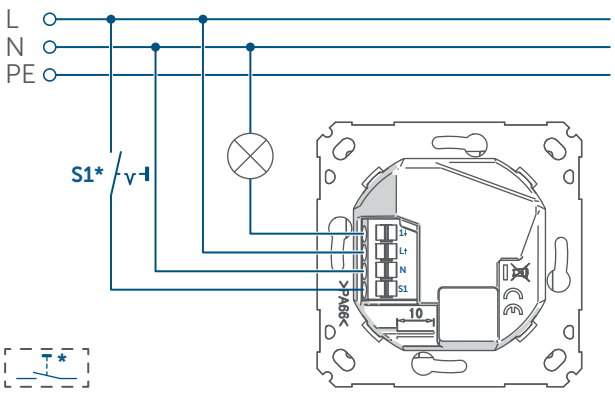


*Figure 3*

- Place the mounting module in the switch box.

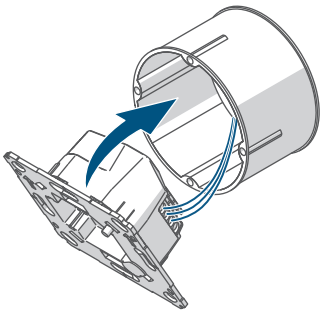

*Figure 4*

- Attach it to the switch box using the screws supplied.

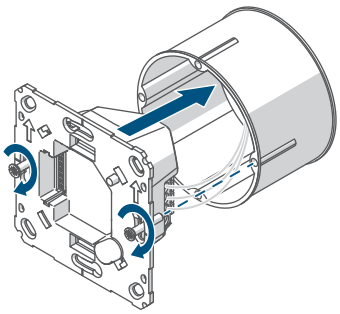

*Figure 5*

- Place the frame of your installation onto the Mounting Module.

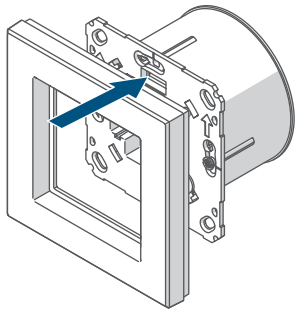

*Figure 6*

- Fit the device to the mounting module by fully engaging the connecting pins in the holder provided in the mounting module.

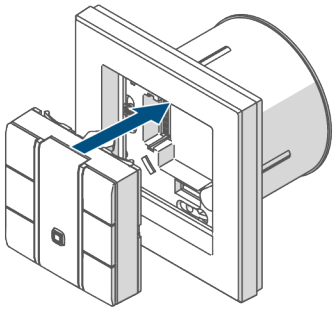

*Figure 7*

- Switch the fuse of the power circuit on again *see Installation instructions, page 6* to activate the device pairing mode.

## 6.3 Installation in multiple combinations

Make sure that there are no cables running in the wall at the desired location.

You can mount the device with the attachment frame provided or use it with frames of other manufacturers as well as integrate the device into a multi-compartment frame. You can flexibly fix the mounting plate to the wall using adhesive strips or screws. When mounting in multi-compartment combinations, ensure that mounting module of the device is mounted flush next to and aligned with any already attached mounting plates/support rings.

A separate list of compatibility with common switch series can be found here: Overview of switch series

## 6.4 Pairing with Central Control Unit

Read this entire section before starting the pairing procedure.

Set up your Homematic IP Central Control Unit via the Homematic IP app so that you can use Homematic IP devices in the system. Detailed information on this is to be found in the operating manual for the Central Control Unit.

Proceed as follows to pair the device with your control centre:

- Open the Homematic IP app.
- Tap on **...More** in the homescreen.
- Tap on **Pair device**.
- Connect the power supply.
- The pairing mode is active for 3 minutes.

You can manually start the pairing mode for another 3 minutes by pressing the system button shortly.

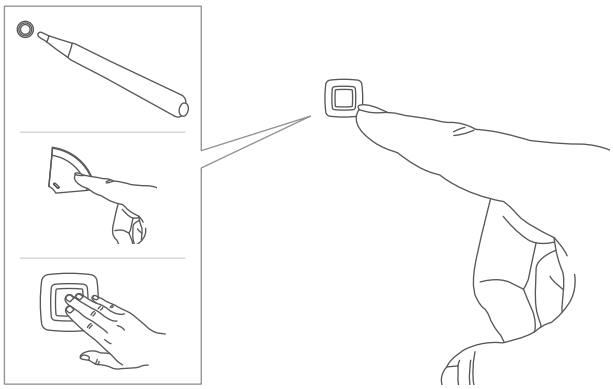

*Figure 8*

The type of system button depends on your device. Further information is to be found in the device overview.

- The device appears automatically in the Homematic IP App.
- Enter the last four digits of the device number (SGTIN) in your app, or scan the QR code. The device number can be found on the sticker supplied or attached to the device.
- Wait until pairing is completed.
- If pairing was successful, the device LED lights up green.
- The device is now ready for use.

If the device LED lights up red to, please try again *Flash codes, page 11*.

- Then follow the instructions in the Homematic IP App.

# 7 Operation

If you have paired the device with a Homematic IP Central Control Unit, additional configurations are available in the device settings:

- **Pair of buttons/single buttons**: You can configure the buttons on the device.
  – Button pairs
  – Single buttons
  By default, the buttons are configured as button pairs.

  Define the function of the buttons in the Homematic IP App according to your personal requirements, e.g. to switch light sources on/off, activate/deactivate Eco mode or raise/lower shutters.
- **Assign channels**: Assign the individual buttons and LEDs to the desired rooms or solutions.

# 8 Troubleshooting

## 8.1 Command not confirmed

If at least one receiver does not confirm a command, the LED lights up red at the end of the failed transmission. The reason for the failed transmission may be radio interference *see General information about wireless operation, page 12*. This may be caused by the following:

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

## 8.2 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 ends. 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 start-up or initial installation of a system. If the duty cycle is exceeded, this is indicated by three slow red flashes of the device LED, and may manifest itself in the device temporarily working incorrectly. The device will start working correctly again after a short period (max. 1 hour).

## 8.3 Flash codes

| Flash code | Meaning | Solution |
|---|---|---|
| 1× orange and 1× green light (after connecting the power supply) | Test display | You can continue once the test display has stopped. |
| Short orange flashes (every 10 s) | Pairing mode active | Enter the last four digits of the device number (SGTIN) in your app, or scan the QR code. |
| Short orange flashes | Transmission of configuration data | Wait until the transmission is completed. |
| Brief orange flashing (followed by a steady green light) | Transmission confirmed | You can continue operation. |
| Brief orange flashing (followed by a steady red light) | Transmission failed or duty cycle limit reached | Please try again *see Command not confirmed, page 9*or *see Duty cycle, page 9*. |
| 6× long red flashes | Device defective | Please see the display on your app or contact your retailer. |
| Alternating long and short orange flashing | Device software update (OTAU) | Wait until the update is completed. |

# 9 Restoring the factory settings

The factory settings of the device can be restored. If the device is paired with a Central Control Unit, the configurations are automatically restored. If the device is not paired with a Central Control Unit, all the settings are lost.

Proceed as follows to restore the factory settings of the device:

- Press and hold the system button for 4 seconds Fig. 8
- The device LED starts flashing orange fast.
- Release the system button .
- Press and hold themenu buttonfor 4 seconds.
- The device LED lights up green.
- Release the system button to finish restoring the factory settings.

The device performs a restart.

If the device LED lights up red to, please try again *Flash codes, page 11*.

# 10 Maintenance and cleaning

The device is maintenance-free for you. Leave any maintenance or repair to a specialist.

Clean the device using a soft, clean, dry and lint-free cloth. The cloth can be slightly dampened with lukewarm water to remove more stubborn marks. Do not use any detergents containing solvents for cleaning purposes. They could corrode the plastic housing and label.

# 11 General information about wireless 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 inside buildings can differ greatly from that in open air. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity play an important role, as do on-site structural/screening conditions.

**Declaration of conformity**

eQ-3 AG, Maiburger Str. 29, 26789 Leer, Germany, hereby declares that the wireless system type Homematic IP HmIP-WRC6-230, HmIP-WRC6-230-A complies with Directive 2014/53/EU. The full text of the EU declaration of conformity can be found at: www.homematic-ip.com

# 12 Disposal

This symbol means that the device must not be disposed of as household waste, general waste, or in a yellow bin or a yellow sack. For the protection of health and the environment, you must take the product and all electronic parts included in the scope of delivery to a municipal collection point for waste electrical and electronic equipment to ensure their correct disposal. Distributors of electrical and electronic equipment must also take back waste equipment 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. Please also remember that you, the end user, are responsible for deleting personal data on any waste electrical and electronic equipment before disposing of it.

CE The CE mark is a free trademark that is intended exclusively for the authorities and does not imply any assurance or guarantee of properties.

If you have any technical questions about the appliance, please contact your specialist dealer.

# 13 Technical specifications

| | |
|---|---|
| Short description | HmIP-WRC6-230, HmIP-WRC6-230-A |
| Supply voltage | 230 V / 50 Hz |
| Degree of protection | IP20 |
| Ambient temperature | -5 - +40°C |
| Weight | 110 g |
| Dimensions without frame (W × H × D) | HmIP-MMR: 71× 71× 36 mm HmIP-WRC6-230-F: 54.5 × 54.5 × 29 mm |
| Current consumption | 6 A (max.) |
| Max. switching capacity | 1380 W |
| Standby power consumption | 0.65 W |
| Minimum load for cross or two-way circuits | 1 W |
| Relay | 1× NO contact |
| Cable type and cross section rigid wire | rigid cable, 0.75 - 2.5 $mm^2$ |
| Installation | in switch boxes (device boxes) in accordance with DIN 49073-1, in Legrand Batibox switch boxes |
| Degree of pollution | 2 |
| Typical Range in open space | 120 m |
| Radio frequency band | 868.0–868.6 MHz / 869.4–869.65 MHz |
| Duty cycle | <1% per h / <10% per h |
| Receiver category | SRD category 2 |
| Maximum radiated power | 10 dBm |

**Subject to modifications.**

# Free download of the Homematic IP app!

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Bevollmächtigter des Herstellers:
Manufacturer's authorised representative:

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