

EN

ORIGINAL INSTRUCTIONS
SOCKET HYGROSTAT



Table of contents

Notes regarding the instructions 2

Safety 2

Information about the device 4

Transport and storage 5

Assembly and start-up 5

Operation 6

Errors and faults 7

Maintenance and repair 7

Technical annex 8

Disposal 8

Notes regarding the instructions

Symbols



Warning of electrical voltage

This symbol indicates dangers to the life and health of persons due to electrical voltage.



Warning

This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.



Caution

This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

Note

This signal word indicates important information (e.g. material damage), but does not indicate hazards.



Info

Information marked with this symbol helps you to carry out your tasks quickly and safely.



Follow the manual

Information marked with this symbol indicates that the instructions must be observed.

You can download the current version of the instructions and the EU declaration of conformity via the following link:



HG 135



<https://hub.trotec.com/?id=47053>

Safety

Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use.



Warning

Read all safety warnings and all instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

- Do not use the device in potentially explosive rooms or areas and do not install it there.
- Do not use the device in aggressive atmosphere.
- Do not use the device with wet or damp hands.
- This appliance is not a toy. Keep away from children and animals.
- Protect the device from permanent direct sunlight.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Do not open the device.
- Observe the storage and operating conditions (see Technical data).
- Check accessories and connection parts for possible damage prior to every use of the device. Do not use any defective devices or device parts.
- In order to avoid overheating, the device must not be covered during operation!
- The device may only be operated on a tested safety socket with a continuous current of 16 A.
- Only properly functioning and tested EU-compliant consumers with undamaged supply line (maximum power of 3,680 VA) may be operated on the safety plug adapters.
- Plugging together several safety plug adapters is not permitted.

- Ensure that the connection line between the room hygostat and safety plug adapter is not damaged. When the device shows obvious damage, it must be decommissioned immediately.
- Only operate the device in dry surroundings.
- Please note that the device is only de-energized when the plug has been disconnected from the mains.

Intended use

Only use the device for controlling humidifiers and dehumidifiers whilst adhering to the technical data.

Exclusively use the device in dry interior spaces in domestic or commercial environments.

To use the device for its intended use, only use accessories and spare parts which have been approved by Trotec.

Foreseeable misuse

The device is not suitable for use with any type of extension cables. The device must not be used in potentially explosive areas, when wet or very humid.

Any unauthorised changes, modifications or alterations to the device are forbidden.

Personnel qualifications

People who use this device must:

- have read and understood the instructions, especially the Safety chapter.

Safety signs and labels on the device

Note

Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.

The following safety signs and labels are attached to the device:

Do not connect several devices by plugging one into another.

Only for use in dry rooms.

Zero potential only when the plug is pulled.

	<p>For indoor use only This symbol indicates that the device must only be used in interior spaces. The device is not designed for outdoor use.</p>
--	---

	<p>This symbol indicates that the device complies with protection class I.</p>
--	--

Residual risks



Warning of electrical voltage

Electric shock due to insufficient insulation! Check the device for damages and proper functioning before each use.

If you detect damages, do not use the device any longer.

Do not use the device when either the device or your hands are damp or wet!

Do not use the device if the housing is open.



Warning of electrical voltage

There is a risk of a short-circuit due to liquids penetrating the housing!

Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.



Warning of electrical voltage

Work on the electrical components must only be carried out by an authorised specialist company!



Warning

Risk of suffocation!

Do not leave the packaging lying around. Children may use it as a dangerous toy.



Warning

The device is not a toy and does not belong in the hands of children.



Warning

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way! Observe the personnel qualifications!



Caution

Keep a sufficient distance from heat sources.

Note

To prevent damages to the device, do not expose it to extreme temperatures, extreme humidity or moisture.

Note

Do not use abrasive cleaners or solvents to clean the device.

Behaviour in the event of an emergency

1. Switch the device off.
2. Disconnect the device from the mains feed-in: Pull the plug adapter from the mains socket.
3. Do not reconnect a defective device to the mains.

Information about the device

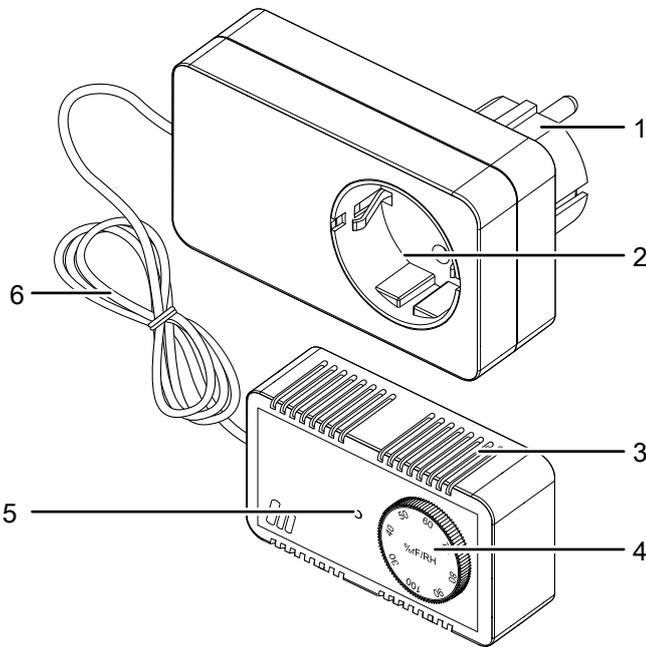
Device description

The device HG 135 permits humidity regulation in combination with dehumidifiers or humidifiers between 40 % RH and 90 % RH.

For this purpose, the mains plug of the dehumidifier or humidifier is connected to the device's safety socket and the desired humidity level is set.

With its integrated sensors the device measures the actual relative humidity and switches the dehumidifier or humidifier on or off correspondingly.

Device depiction



No.	Designation
1	Mains plug adapter
2	Safety socket
3	Housing cover
4	Adjustment wheel % RH
5	Stop bolt
6	Connection cable

Technical data

Parameter	Value
Model	HG 135
Article number	6.100.000.068
Control range	40 % RH - 90 % RH
Measurement accuracy	± 3 % RH
Operating range (ambient temperature)	min. 0 °C - max. 55 °C
Operating range (ambient humidity level)	35 - 85 % RH at the safety plug adapter 30 - 95 % RH at the room hygrostat
Cable length	1.9 m
Socket	CEE 7/3 (safety socket type F)
Mains supply	230 V / 50 Hz
max. switching capacity	3500 W
max. switching load	16 A
Protection class	I / ⚡ (consumer socket) II / □ (hygrostat)
Type of protection	IP20
Degree of pollution	2
Lifespan	> 10,000 switching cycles with 16 A 230 VAC ohmic load
Temperature impact relating to 23 °C	≤ ± 0.2 % RH / K
Switching difference	approx. 5 % RH / K
Typical response time t50 with v = 2 m/s	1.2 min
Air velocity	0.2 – 8 m/s
Installation height	≤ 4,000 m height above sea level (SL)
Operating principle	1 x NO contact (type 1.C)
Rated surge voltage	2.5 kV
Temperature ball-thrust hardness test	92 °C
Dimensions of the hygrostat (length x width x height)	55 mm x 85 mm x 36 mm
Dimensions of the safety plug (length x width x height)	70 mm x 70 mm x 100 mm
Weight	290 g

Scope of delivery

- 1 device
- 1 manual

Transport and storage

Note

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

Transport

Before transporting the device, observe the following:

- Switch off the consumer.
- Remove the mains plug adapter (1) from the mains socket.
- Hold onto the mains plug while pulling the connection cable of the consumer out of the mains plug adapter (1).
- Do not use the power cable to drag the device.

Storage

When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- protected from dust and direct sunlight
- the storage temperature complies with the values specified in the Technical data

Assembly and start-up

Mounting the device to the wall

Note

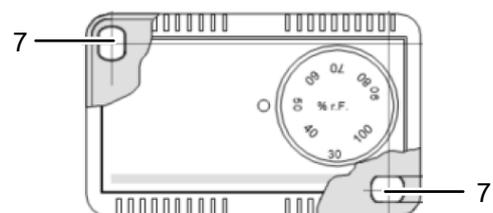
Ensure that a representative measurement of the humidity level is guaranteed. The measured humidity values at the installation site should comply with those of the room. Make sure that the room hygrometer is positioned in the vertical air current.



Info

Make sure not to damage the cables of the room hygrometer during the fastening process!

1. Unscrew the outer fastening screws of the room hygrometer and remove the housing cover (3).
2. Place the room hygrometer on the mounting location prepared.
3. Use the two eyelets (7) to screw down the room hygrometer on the wall by means of two screws.

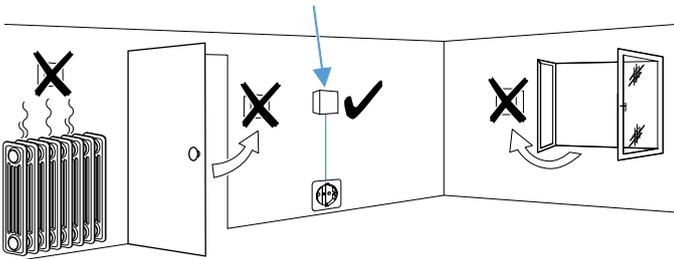


4. Reattach the housing cover (3) and screw it tight using the fastening screws.

Start-up

Before installing the device, observe the following:

- Every time before starting up the device, check the condition of the power cable. If there are doubts as to the sound condition, contact the customer service.
- Ensure that no further consumers or mains sockets are connected to the mains plug adapter (1) of the device.
- Only position the device in rooms where there is no source of ignition (e.g. open flames, an active gas appliance or an electric heater).
- Install the device to which the hygrostat is connected according to its instructions.
- Do not create tripping hazards when laying the power cable or other electric cables, especially when positioning the device in the middle of the room. Use cable bridges.
- When mounting the device, keep a sufficient distance from heat sources.
- Make sure that no curtains or other objects interfere with the air flow.
- Keep windows and doors shut during start-up and operation.
- When positioning the device, particularly in wet areas, secure it locally with an RCD (residual current device) which complies with the respective regulations.



Operation

Notes:

- Avoid open doors and windows.
- Keep a distance from heat sources.
- After being switched on, the device operates fully automatically.

Setting the target humidity value



Info

In order to classify the history values, observe the graphic representation *Tolerance of the average switching point* in the Annex.

1. Insert the mains plug adapter (1) into a secured mains socket.
2. Insert the connection plug of the consumer into the mains plug adapter (1) of the room hygrostat.
3. Use the adjustment wheel (4) to set the target value for the desired relative humidity level.
 - ⇒ Turn the adjustment wheel (4) until the desired value is shown in parallel to the stop bolt (5).
4. Switch on the consumer.
 - ⇒ The room hygrostat controls the relative humidity level via the device connected.
 - ⇒ When target value set has been reached, the consumer switches off automatically.

Shutdown



Warning of electrical voltage

Do not touch the mains plug adapter with wet or damp hands.

1. Switch off the consumer.
2. Remove the mains plug adapter (1) from the mains socket.
3. Hold onto the mains plug while pulling the connection cable of the consumer out of the mains plug adapter (1).
4. Clean the device according to the Maintenance chapter.
5. Store the device according to the Transport and storage chapter.

Errors and faults

The device does not start:

- Check the power connection.
- Check the plug adapter for damage.
- Check the room temperature and the relative humidity. Observe the device's permissible operating range of the room temperature and relative humidity according to the technical data.
- Check whether the external consumer is working correctly and note what is said in the consumer's instructions, if necessary.

The device still does not operate correctly after these checks:

Please contact the customer service.

Maintenance and repair

Cleaning

Clean the device with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Do not use any sprays, solvents, alcohol-based cleaning agents or abrasive cleaners, but only clean water to moisten the cloth.

Repair

Do not modify the device or install any spare parts. For repairs or device testing, contact the manufacturer.

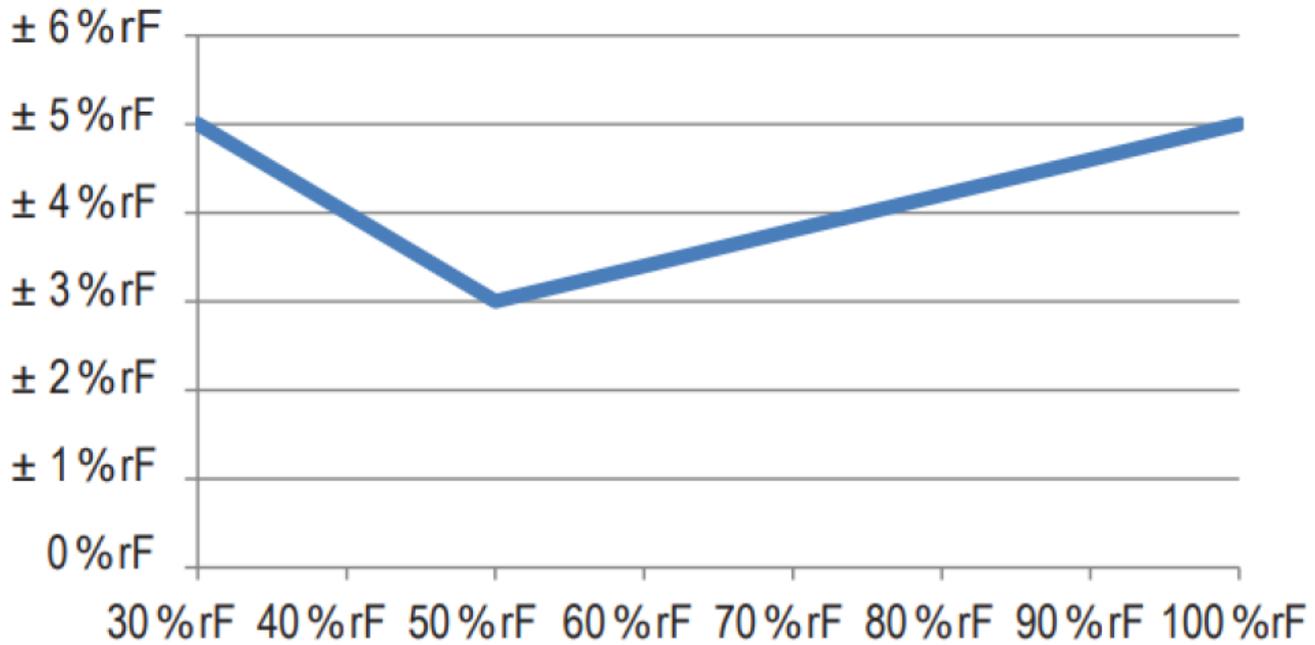
Technical annex

Tolerance of the average switching point



Info

Setting at 48 % RH /23 °C
 Long term drift ≤ ± 1 % RH p.a



Disposal

Always dispose of packing materials in an environmentally friendly manner and in accordance with the applicable local disposal regulations.



The icon with the crossed-out waste bin on waste electrical or electronic equipment is taken from Directive 2012/19/EU. It states that this device must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. You can also find out about other return options that apply for many EU countries on the website <https://hub.trotec.com/?id=45090>. Otherwise, please contact an official recycling centre for electronic and electrical equipment authorised for your country.

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.

Only for United Kingdom

According to Waste Electrical and Electronic Equipment Regulations 2013 (SI 2013/3113) (as amended) devices that are no longer usable must be collected separately and disposed of in an environmentally friendly manner.

Trotec GmbH

Grebener Str. 7
D-52525 Heinsberg

☎ +49 2452 962-400

☎ +49 2452 962-200

✉ info@trotec.com

www.trotec.com