

HT12, HTF12 Room humidity/temperature
sensor

Application

The HT12 and HTF12 are used for continuous measurement the relative humidity and room temperature in homes and offices.

The room temperature setpoint is adjusted using the setting knob of the HFT12.



Content	Page
Important Information on Product Safety	2
Item	3
Technical Data	3
Accessories (included in delivery)	3
Accessories (not included in delivery)	3
Dimensions	4
Connection.....	4
Mounting	5



Important Information on Product Safety

Safety instructions

This document contains information on installing and commissioning the product “HT12, HTF12”. Each person who carries out work on this product must have read and understood this document. If you have any questions that are not resolved by this document, you can obtain further information from the supplier or manufacturer.

If the product is not used in accordance with this document, the protection provided could be impaired.

The applicable regulations must be observed when installing and using the devices. Within the EU, these include regulations regarding occupational safety and accident prevention as well as those from the VDE (German Association for Electrical, Electronic & Information Technologies). If the device is used outside of the EU, it is the responsibility of the plant engineer or operator to comply with local regulations.

Mounting, installation and commissioning work on the devices may only be carried out by qualified technicians. Qualified technicians are persons who are familiar with the described product and who can assess given tasks and recognize possible dangers based on their technical training, knowledge and experience, as well as their knowledge of the applicable regulations.

Symbol meanings



WARNING

Indicates a hazard of medium risk which can result in death or serious bodily injury if not avoided.



CAUTION

Indicates a hazard of low risk which can result in minor or medium bodily injury if not avoided.



CAUTION

Indicates a hazard which can result in material damage or malfunctions if not avoided.



NOTE

Indicates additional information that can simplify working with the product.



NOTES ON DISPOSAL

In accordance with the applicable laws and directives of the European Union countries, the product should not be disposed of with household waste. This ensures environmental protection and sustainable recycling or raw materials.

Private users should contact their local retailer or their local authority for information regarding environmentally safe recycling of old appliances. The local and currently valid legislation must be observed.

Commercial users should contact their supplier and observe the conditions of the purchase agreement. This device may not be disposed of together with other commercial waste.

Item

HT12	Room humidity/temperature sensor
HTF12	Room humidity/temperature sensor with setting knob 10 kΩ

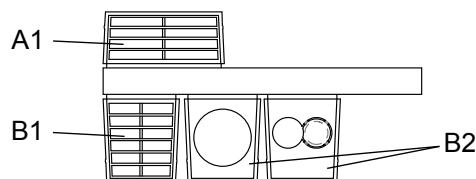
Technical Data

Nominal voltage	AC/AD 24 V ± 10 %, 0.4 VA
Measuring elements for humidity	Humidity sensor with measurement converter Output: DC 0..10 V for 0..100 % r.h.; max. 5 mA
Measuring elements for temperature	KP10 active measuring element Output: 2.731 V at 0 °C, TC = 10 mV/K, calibrated at the factory
Accuracy	rel. humidity: ± 3 % at 22 °C Temperature: ± 0.25 K at 22 °C Factory adjustment +/- 0.25 K at 22 °C
Measuring range	rel. humidity: 0..100 % r.h. Temperature: 0..50 °C
Ambient humidity	max. 0..90 % r.h.; non-condensing
Ambient temperature	0..60 °C
Setpoint adjuster	only for HTF12 10 kΩ potentiometer, linear, setting knob with trend arrows
Storage temperature	-40..+60 °C
Housing	Plastic; color RAL 9010 (pure white)
Degree of protection	IP30
Weight	HT12 30 g; HTF12 40 g
Dimensions	HT12 WxHxD mm 82.5 x 87.5 x 27.5 HT12 WxHxD mm 82.5 x 87.5 x 28.3

Accessories (included in delivery)

The sensor cover has two ventilation inserts for quick measurement of the temperature.
The inserts plug into the cover.

- ▶ The included cover inserts may need to be exchanged for a surface-mount installation, for example



A1/B1	Inserts for increased air throughput
B2	Inserts for cable entry from below (surface mounting)



CAUTION

With B2, IP30 degree of protection only ensured when air gap at cable entry is ≤ 2.5 mm. Degree of protection without cover inserts: IP10.

Accessories (not included in delivery)

BA	Ball protection cover
----	-----------------------

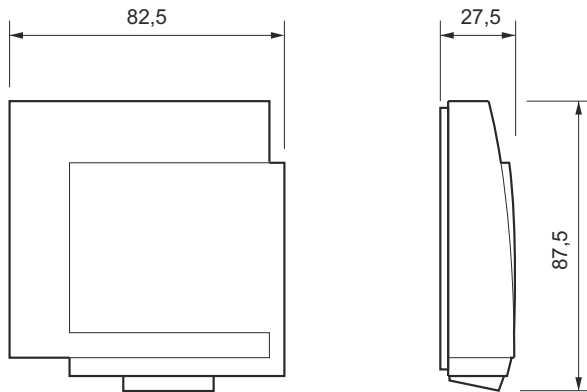


Product description

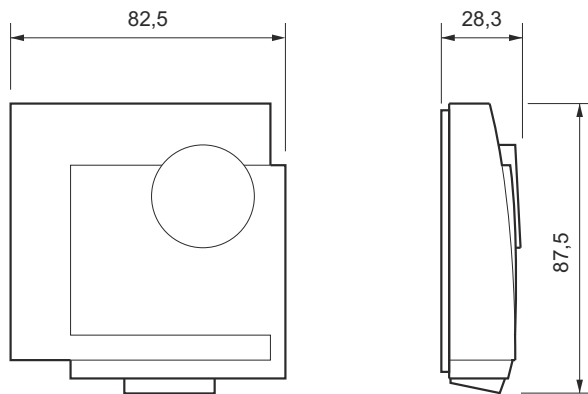
HT12, HTF12

Dimensions

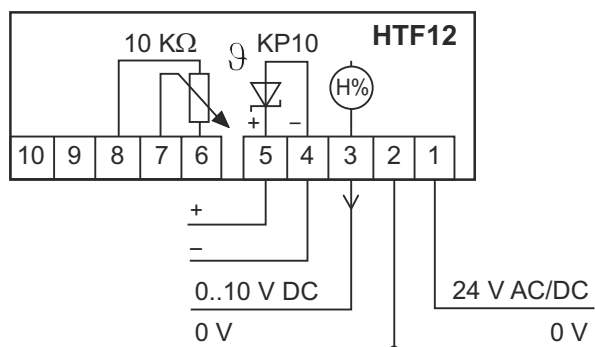
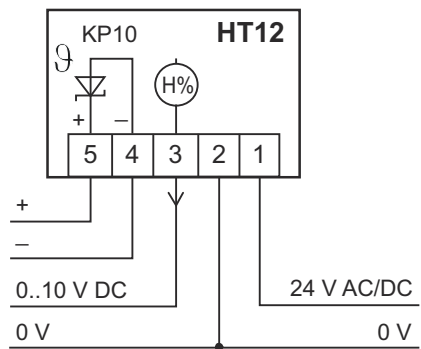
HT12



HTF12



Connection





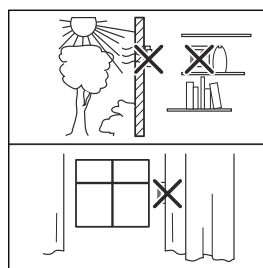
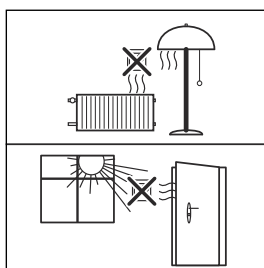
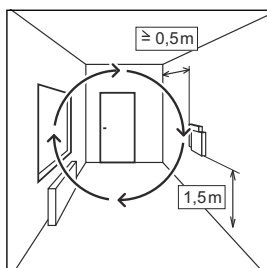
Mounting



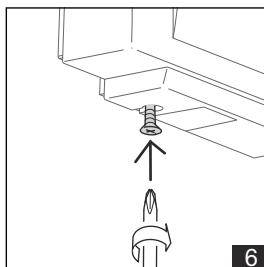
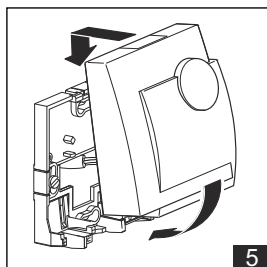
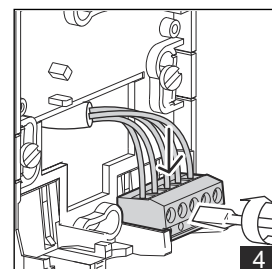
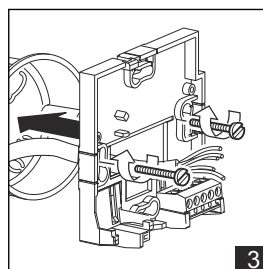
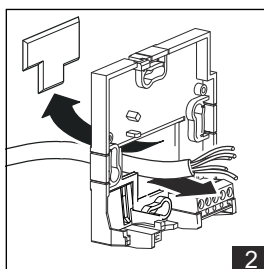
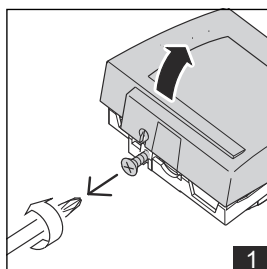
WARNING

Contact with live parts of electrical domestic installation can cause death due to electric shock. Mounting/removal may only be carried out when power is switched off.

To ensure fast and accurate measurement of the room temperature, select an installation location within the room's air flow. The ventilation slots on the cover should be positioned vertically above one another.



Flush mounting



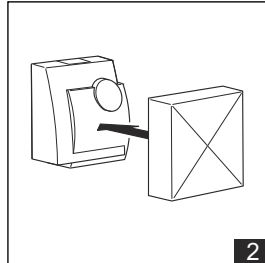
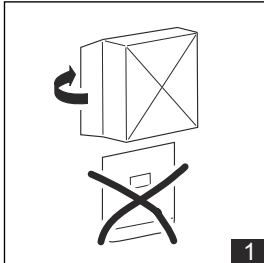


Protective cover



CAUTION

During installation, use the packaging box as a protective cover.



- ▶ Fold the two side flaps inward and tear off the lid of the box.
- ▶ Slide the packaging box over the sensor.