

Device Description

HR600 Room Humidity Controller

Application

The HR600 room humidity controller with contact output is used to monitor the relative humidity in a room. Setpoints are set directly on the HR600 humidity controller.

Type

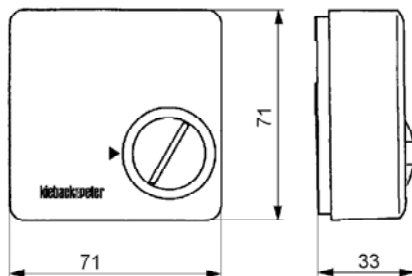
HR600 Room humidity controller with a voltage-free changeover switch

Technical Data

Output	Voltage-free changeover switch Switching difference: Approx. 4% RH Switching capacity: Max. AC 250 V, 5 (0.2) A to max. 80% RH and non-condensing air in the housing.
	Warning Max. AC 48 V when used in damp spaces or when relative humidity is over 80%.
Medium	Relative humidity of room air, solvent-free, non-aggressive
Measuring system	Hygroscopic plastic measuring tape
Measuring range	30% to 100% RH
Accuracy	± 3% RH
Working range	35% to 100% RH
Housing	Plastic housing, cover color RAL 9010 (white)
Ambient temperature	0°C to 60°C
Degree of protection	IP20
Installation	Wall mounting, ventilation slots of the hood should be positioned vertically above one another (see reverse side)



Dimensions



Accessories

Z113	Adapter plate for installation on flush-mounted box with mounting holes positioned vertically above one another
Z123	Mounting plate with wall clearance for surface-mounting

Installation



Danger

Electrical installation and sensor connection may only be carried out by qualified technicians.

Ensure that this process complies with guidelines from the VDE (Association for Electrical, Electronic & Information Technologies) and local wiring regulations.

Function

The measuring system (hygroscopic plastic measuring tape) transfers the room humidity directly to the switching system by changing length. If the rel. humidity rises above the setpoint, the output switches from terminals 1 – 2 to 1 – 4.

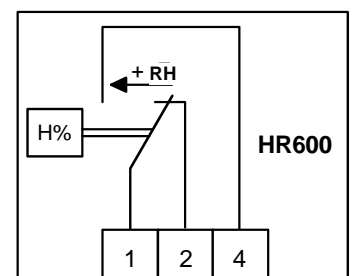


Note

The room humidity controller must be protected against dust, contamination and water.

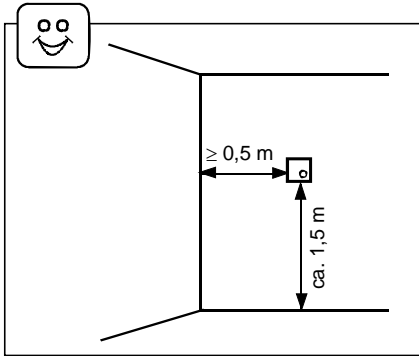
The measuring system requires no maintenance in normal, clean room air. Depending on type and concentration, aggressive and solvent-based media can cause errors in measurement.

Connection

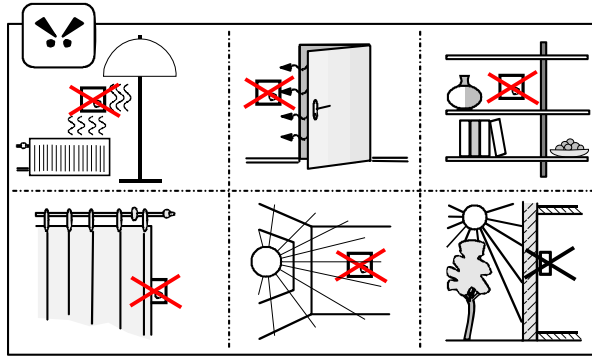


Mounting

The room humidity controller should be mounted in a location where it is exposed to the air circulation in the room, so that it can quickly and accurately detect the relative humidity of the room. The ventilation slots of the hood should be positioned vertically above one another.



Correct



Incorrect



A mains voltage of 230 V may be present.

Installation and electrical connections may only be carried out by qualified technicians, connection wires must first be disconnected from the mains supply.

