

DBKH-10H

Humidistat 1 for duct or wall mounting



DBKH-10H is an electromechanical humidistat for control of humidifying and/or dehumidifying in HVAC systems.

- One step
- Change-over contact, 250 V AC 10 A
- Excellent accuracy and reliability
- For duct or wall mounting
- Protection class IP54

Construction

The humidistat utilises human hair as its sensor medium. The hair stretches as the humidity increases and shrinks as the humidity decreases. These changes are then transmitted to a micro switch. The setpoint switch affects the position of the micro switches in relation to the hair element. The setpoint can be set at between 10 and 100% RH. As the contacts are of the change-over type, the humidistat can control both humidification and dehumidification. This tried and tested construction, employing only a few movable parts, offers a high degree of reliability and accuracy

Mounting

DBKH-10H can be mounted in a ventilation duct or on a wall. The humidistat comes supplied with a flange which makes it suitable for both positions.

Calibration

The humidistats are calibrated at the factory before delivery to the customer, but should be precision calibrated after installation to ensure optimal results. After this, annual checks and re-calibration are recommended.

Maintenance

The hair element should be dusted off with a soft brush once a year. Do not rinse the hair element in water as this changes the calibration point. For further information concerning maintenance, see instructions supplied on delivery.

Typical applications

Can be used to control a humidifier or a dehumidifier or for on/off controlling of a fan. Can also be used to alarm when the humidity exceeds or falls below a pre-set level.

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Technical data

Relay contact data	10 A, 250 VAC resistive at 25°C ambient
	8 A, 250 VAC resistive at 60°C ambient
	Not suitable for DC circuits
Material	Housing: Extruded aluminum (brown)
	Plastic components: Self-extinguishing Macrolon (white)
Ambient temperature	Sensor -20...+70°C
	Housing -20...+60°C
Mounting	Via universal bracket, for both wall or duct mounting
Cable gland	PG11
Weight	0.6 kg
Form of protection	IP54
Setpoint	10...100%RH
Hysteresis	3%RH at 45%RH



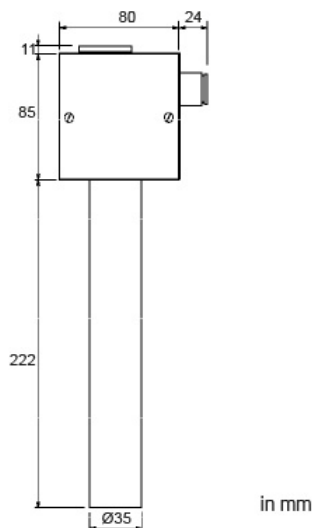
This product carries the CE-mark. More information is available at www.industrietechnik.it.

Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC through product standards EN 60730-1 and EN 60730-2-13.

EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2004/108/EC through product standards EN 61000-6-3.

RoHS: This product conforms with the Directive 2011/65/EU of the European Parliament and of the Council.

Dimensions



Wiring

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The contact between terminals 1 and 2 closes when the humidity exceeds the setpoint value.

Documentation

All documentation can be downloaded from www.industrietechnik.it.

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