

**Duct hygrostats including mounting flange,
mechanical, one-step,
with switching output**

Mechanical duct hygrostat **HYGRASREG® KH-10** with switching output as one-step hygrostat. It works without external voltage and is used for controlling and monitoring the relative humidity in ventilation and air conditioning ducts, laboratories, production facilities, climatic test cabinets, indoor swimming pools, greenhouses, etc. to control humidifying and dehumidifying equipment, as minimum guard, or maximum hygrostat. KH-10 is applied in dust-free, pollutant-free, non-aggressive air.

KH-10-U
(with internal
setting)

TECHNICAL DATA

Switching capacity: (Contact load)	15 (2) A; 24...250 V AC, min. 100 mA > 24 V in dry rooms only according to VDE 0110
Setting range:	35...100 % r. H.
Contact:	dust-proof microswitch as single-pole, potential-free changeover contact (gold-plated optional)
Enclosure:	plastic, UV-stabilised, material polyamide, 30 % glass-globe reinforced, colour traffic white (similar to RAL 9016)
Enclosure dimensions:	108 x 70 x 73,5 mm (Thor 2)
Cable gland:	M 20 x 1,5; including strain relief
Ambient temperature:	0...+60 °C
Operating difference:	approx. 3...6 % r. H.
Measuring accuracy:	typically ± 4 % r. H.
Controlled medium:	air, unpressurised, non-aggressive
Average temperature coefficient:	0,2 % / K; at +20 °C and 50 % r. H.
Flow rate:	max. 8 m / s
Sensor sleeve:	made of brass nickel-plated, \varnothing 20 mm, NL = 223 mm
Electrical connection:	0.14 - 1.5 mm ² , via terminal screws
Protection class:	I (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014 / 30 / EU, low-voltage directive 2014 / 35 / EU

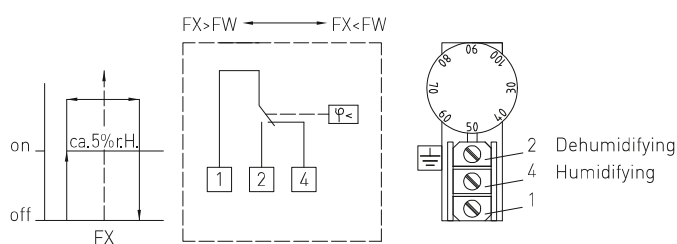
ACCESSORIES see last chapter

FUNCTION

Humidifying:	Wire contacts 1 - 4, Switch points ON / OFF are approx. 2.5 % r. H. above or below the selected value.
Dehumidifying:	Wire contacts 1 - 2, Switch points ON / OFF are approx. 2.5 % r. H. above or below the selected value.

Schematic diagram

KH-10



FX = measured relative humidity
FW = Humidity rate preset at the turning knob





S+S REGELTECHNIK

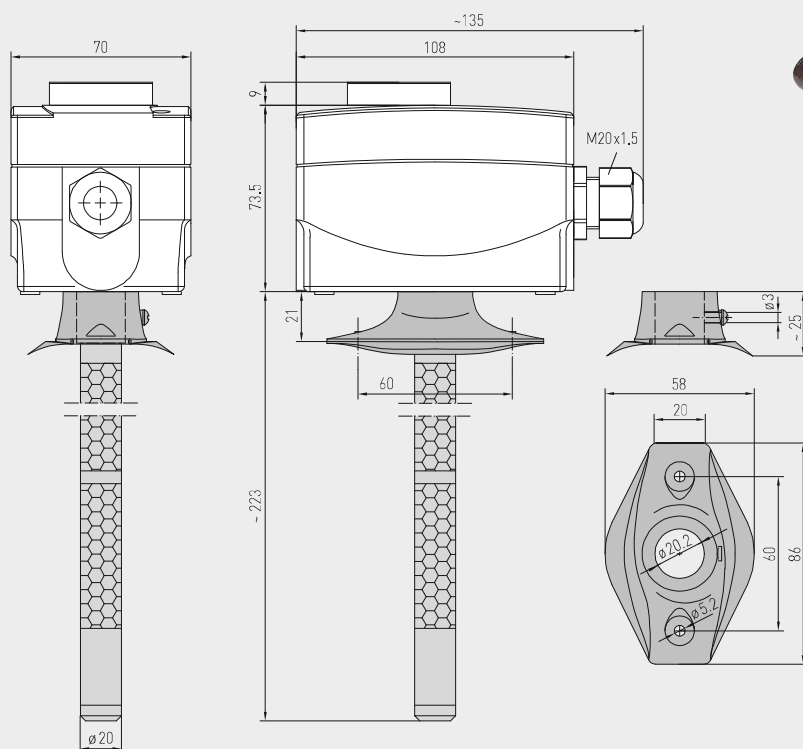
HYGRASREG® KH - 10

Duct hygrometers including mounting flange,
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with switching output

Dimensional drawing

KH-10

KH-10
(with external
setting)



MF-20-K

Mounting flange,
plastic



HYGRASREG® KH - 10 Duct hygrometers, mechanical, Standard

Type / WG01	Setting Range Humidity	Steps	Features	Item No.	Price
KH-10				External setting	
KH-10	35...100 % r. H.	one-step	–	1202-3012-0010-000	193,45 €
KH-10-U				Internal setting	
KH-10 U	35...100 % r. H.	one-step	Setpoint setter concealed	1202-3012-0020-000	191,40 €
Accessories					
MF-20-K	Mounting flange for KH, plastic, for duct installation (included in the scope of delivery)			7100-0030-4000-000	8,06 €
WH-20	Wall bracket for KH for on-wall mounting			1200-0010-4000-000	10,52 €

For further information see last chapter!