Mechanical room hygrostats / hygro-thermostats RFHSB, FHY, RKDSB

Surface-mounted installation – Design Berlin 2000 / 3000 / UP

RFHSB-060.010

FHY 101.060#21

RKDSB-171.000

Technical data Hygrostat (for thermostat see at RKDSB):

Switching voltage:	24 … 230 V ~
Sensor:	synthetic fibres
Switching capacity:	at 230 V ~ for dry rooms only and 24 V ~
Dehumidifying:	5 (0.2) A min. 100 mA
Dehumidifying:	3 (0.2) A / **FHY:** 2 (0.2) A / min. 100 mA
Contact:	changeover contact
Min. switching current:	min. 100 mA at 24 V ~
Setting ranges:	30 … 100 % r. h. / **FHY:** 35 … 85 % r. h.
Switching difference:	approx. 4 % r. h. / **FHY:** approx. 5 % r. h.
Measuring accuracy:	approx. 3 % r. h. (microswitch at 50 % r. h.) **FHY:** approx. 4 % r. h. (microswitch at 50 % r. h.)
Degree of protection:	IP 30
Protection class:	II after acc. installation
General equipment:	mechanical range reduction
Admissible humidity:	max. 95 % r. h., non condensing
Storage temperature:	–20 … +60 °C
Safety and EMC:	acc. to DIN EN 60730
Ambient temperature:	10 … 60 °C, **FHY + RKDSB:** 0 … 50 °C
Housing colour:	pure white, similar to RAL 9010
Housing material:	plastic (ABS) / **FHY:** polycarbonate (PC)
Mounting / installation:	wall mounting or installation on an flush-mounted box
Weight:	**RFHSB:** approx. 90 g **FHY:** approx. 110 g **RKDSB:** approx. 160 g
Electrical connections:	terminal screws

Application

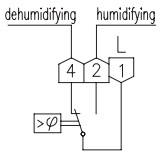
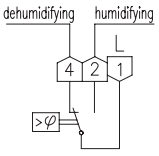
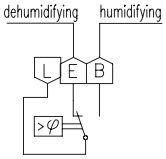
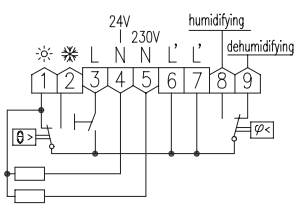
Hygrostat: The room hygrostat serves for the supervision and control of the relative humidity e.g. in business premises, domiciles, habitations, conservatories, bathing rooms, swimming pools, EDP rooms. The relative humidity prevailing in a room impacts on a special sensing strip that, upon the attaining of a certain value, triggers a change-over contact. The adjusting knob on the front of the device enables to adjust the desired set value. The setting range can be restricted.

Hygrothermostat: Supervision **and** control of the relative humidity of the temperature combined in one device.

Note: Take care to comply with the distances that need to be observed between modular bathroom units as specified in DIN VDE 0100-701!

For duct and switch cabinet hygrostats, please see “Industrial equipment” section.

Insulated cover and protective cap not included in delivery for #21 variant.

Model / Picture	Item No.	Equipment	Circuit diagram	PG
RFHSB-060.010 	MA 020000	External setting		I
RFHSB-060.011 	MA 020100	Internal setting		I
FHY 101.060#00 	UA 020004	External setting In a flush-mounted box – 50 x 50 mm or 55 x 55 mm cover can be adapted to fit almost all flush-mounted switch ranges. **To select the cover set, see page** 64. For examples of integration into different switch lines, see page 65.		I
RKDSB-171.000 	MA 220000	1 ON / OFF switch for both thermostat and hygrostat **Thermostat:** external setting Control range: 10 … 35 °C Switching current: 10 (4) A heating –230 V ~ 5 (2) A cooling –230 V ~ 1 (1) A heating / cooling –24 V ~ Switching difference: approx. 1 K		I

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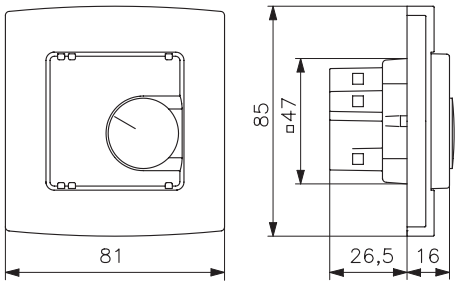
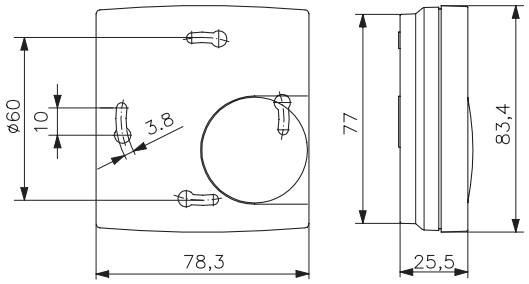
Model / Picture	Item No.	Equipment	PG
FHY 101.060#21	UA 020003	same as FHY 101.060#00 but comprising: hygrostat, alre "Berlin" frame, 50 x 50 mm cover, pure white (similar to RAL 9010), glossy	I
JZ-17 	MN 990001	Adapter plate for the installation of the RKDSB on an flush-mounted box (incl. fixing screws for the installation of the RKDSB on the plate)	II

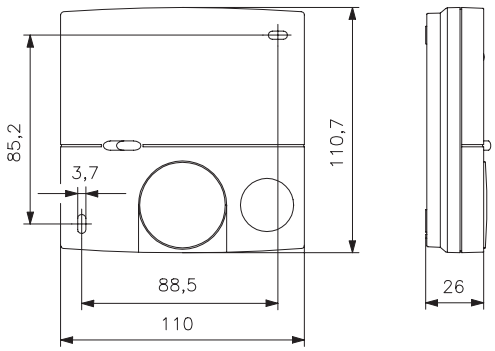
FHY



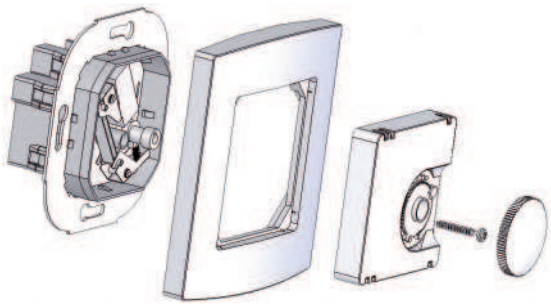
RFHSB



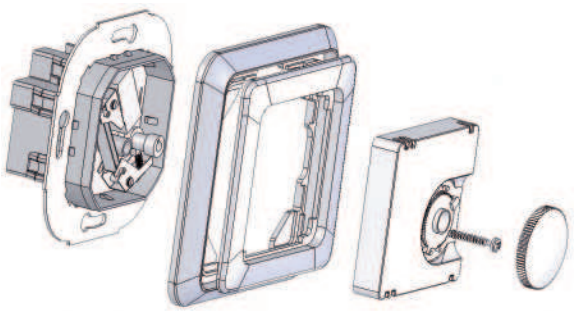
RKDSB



FHY with alre frame "Berlin" (#21 Type)



FHY with intermediate frame



FHY without internal frame (55 x 55)