

Hygrostats / hygrothermostats with mechanically operated sensors

For surface installation – Design Berlin 2000 / 3000 / UP



Technical data Hygrostat (for thermostat see at RKDSB):

- Switching voltage:** 24...250 V~; > 24 V, in VDE 0110 compliant rooms only
- Sensor:** synthetic fibres
- Switching capacity:** at 250 V~ und 24 V~
- Entfeuchten:** 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:** ca. 4% r.h. / **FHY:** ca. 5% r.h.


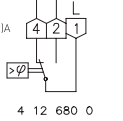


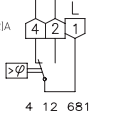


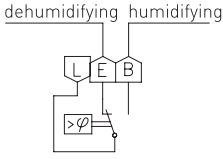

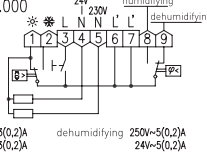

- Measuring accuracy:** approx. 3% r.h. (microswitch at 50% r.h.)
FHY: ca. 4% r.h. (microswitch at 50% r.h.)
- Degree of protection:** IP 30
- Protection class:** II after acc. installation
- General equipment:** mechanical range suppression
- Admissible air moisture:** max. 95% r.h., non condensing
- Storage temperature:** -20... +60°C
- 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 UP box
- Weight:** 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 in business premises, domiciles, habitations, conservatories, bathing rooms, swimming pools, EDP rooms, etc. 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!

Model / Picture	Item No.	Equipment	Circuit diagram	PG
 RFHSB-060.010	MA 020000 Replaces PHY 60.010	External setting	RFHSB-060.010 dehumidifying humidifying 250V ~ /24V ~ Dehumidifying: terminals 1 - 4 5(0.2)A Humidifying: terminals 1 - 2 3(0.2)A 250V for dry rooms only  CE  4 12 680 0	A
 RFHSB-060.011	MA 020100 Replaces PHY 60.011	Internal setting	RFHSB-060.011 dehumidifying humidifying 250V ~ /24V ~ Dehumidifying: terminals 1 - 4 5(0.2)A Humidifying: terminals 1 - 2 3(0.2)A 250V for dry rooms only  CE  4 12 681	A
 FHY 101.060#21	UA 020003	External setting For flush installation – can be adapted to almost all currently available flush switch frame systems when using DIN 49075 compliant intermediate frames (current overview available on request). For examples of the integration into different switch lines, see page 14.		A
 RKDSB-171.000	MA 220000 Replaces MHT 60.300	1 ON / OFF switch for both thermostat and hygrostat Thermostat: external setting Control range: 10 ... 35°C Switching current: 10 (4) heating – 250 V~ 5 (2) cooling – 250 V~ 1 (1) heating/cooling – 24 V~ Switching difference: approx. 1 K	RKDSB-171.000 24V 230V humidifying * 250V~10(4)A 24V~ 1(1)A * 250V~5(2)A 24V~1(1)A Tmax =50°C 4K/h  humidifying 250V~3(0.2)A 24V~3(0.2)A dehumidifying 250V~5(0.2)A 24V~5(0.2)A CE  4 12 679 0	A