

Datasheet RKDSB-171.000

Articlenumber: MA220000

Room hygrostat, surface-mounted, 24V AC or 230V AC, 10...35... °C, 30...100% r.H., two-way contact

Hygrothermostat for simultaneous control or monitoring of temperature and humidity in offices, residential properties and hotels, as well as swimming pools, conservatories and residential baths and suitable for all types of heating. The device can be operated using 24 V~ or 230 V~ as required. With electric underfloor heating, ensure that the output from the heating cannot overheat the screed, even during continuous operation. With hot water heating systems, a max. of 10 valves (closed when de-energised) should be connected to the heating output, or a max. of 5 valves (open when de-energised) to the cooling output. When cooling, a max. of 5 valves (closed when de-energised) should be connected to the cooling output, or a max. of 10 valves (open when de-energised) to the heating output. Where necessary, thermal cut-outs may also need to be installed. Max. switching current: Dehumidifying (terminal 9) 5 (0.2) A, humidifying (terminal 8) 3 (0.2) A, heating (terminal 1) 10 (4) A at 230 V AC / 1 (1) A at 24 V AC, cooling (terminal 2) 5 (2) A at 230 V AC / 1 (1) A at 24 V AC, switching power: Terminal 9: 1150 W, terminal 8: 690 W, terminal 1: 2300 W at 230 V AC / 24 W at 24 V AC, terminal 2: 1150 W at 230 V AC / 230 W at 24 V AC



Ambient temperature, lower value	0 °C
Ambient temperature, upper value	50 °C
Assembly	Complete device
Bearing temperature, lower value	-20 °C
Bearing temperature, upper value	60 °C
Can be read off	No
Colour	Pure white
Contact interlocking	No
Control range, lower value	10 °C
Control range, upper value	35 °C
Cooling control function	Yes
Degree of contamination	2
Depth	26 mm

Design	Berlin 3000
Digital display	No
Display	No
Electric connection	Screw terminals
External setting	Yes
Heating control function	Yes
Height	110,7 mm
Housing material	Plastic ABS
Humidify / dehumidify control function	Yes
Internal setting	No
Maximum air humidity (non-condensing)	95 % r.H
Maximum switching current	10 (4) A
Maximum switching voltage	230 V AC, 50 Hz
Mechanical range reduction	Yes
Medium	Air, not aggressive
Minimum switching current	100 mA
Minimum switching voltage	24 V AC / 50 Hz
Mounting / attachment	Surface mounting
NEMA type of protection	Other
Number of outputs	6
On / Off switch	Yes
Operating voltage	230 V AC / 50 Hz or 24 V AC / 50 Hz
Operation	Rotary knob and switches
Output signal	Switching
Potential free switching contact	No
Protection class	II, following appropriate mounting
RAL colour number (similar)	9010
Safety and EMC	In accordance with DIN EN 60730
Sealable	No
Sensor element	Plastic fibres and bimetal
Setting range, rel. air humidity lower value	30 %

Setting range, rel. air humidity upper value	100 %
Surface properties	Matt
Switching contact	2 two-way contacts
Switching difference	Approx. 4% r.H. approx. 1 K
Switching difference, can be adjusted	No
Switching element	Microswitch and bimetal
Switching power	2300 W
Type of protection	IP30
Width	110 mm
With explosion protection	No
With thermostat	Yes

