

Bimetal room temperature controllers RTBSB

for “superflat” surface-mounted installation – Design Berlin 1000



Technical data

Operating voltage:	230 V~; 24 V~, 50 Hz see “Equipment”
Sensor:	bimetal
Switching capacity:	2 (1) A/230 V~
Setting ranges:	5...30°C
Switching difference:	approx. 0.5 K with a temperature change of max. 4 K/h
Temperature decrease:	approx. 3 K
Degree of protection:	IP 30
Protection class:	II, after according installation
General equipment:	thermal feedback, mechanical range reduction
Admissible air moisture:	max. 95 % r. h., non condensing
Storage temperature:	-20...+70°C
Safety and EMC:	acc. to DIN EN 60730
Ambient temperature:	0...30°C
Housing colour:	pure white, similar to RAL 9010
Housing material:	plastic (ABS)
Mounting/installation:	surface/wall-mounted installation (4 hole fixing on a flush mounting box)
Weight:	approx. 55 g
Electrical connections:	terminal screws

Application

Control or supervision of temperatures in closed rooms.


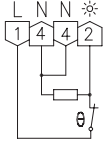

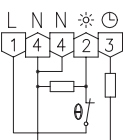

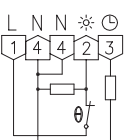

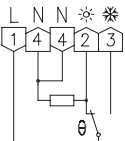

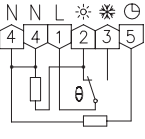
Valve actuator: normally closed type. Normally open heating valves must, if existing, be connected to the cooling outlet of the changeover contact.

Up to max. 10 valve actuators can be connected to the break- and up to 5 actuators to the changeover contact (please note the switching capacity information listed under “Equipment”).

The **installation** on a flush mounting box is recommended on account of the restricted wiring space inside of the device. The controller can nevertheless be mounted on an even, non-conductible surface.


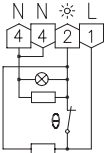

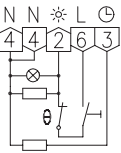

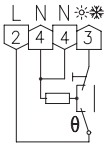

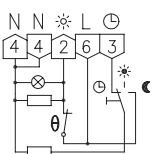
See also “Technical terms” (as of page 172).

Suitable valve actuators on page 43.

Model/Picture	Item No.	Equipment	Circuit diagram	PG
	MA 300000	Break contact, 230 V~		I
RTBSB-201.000/08	MA 300008	same as RTBSB-201.000 but with numeric scale (*...6), minimum batch size 1 pack (50 units)		I
	MA 300100	Break contact, temperature decrease input, 230 V~		I
RTBSB-201.002/07	MA 300107	same as RTBSB-201.002 but with numeric scale (*...6), minimum batch size 1 pack (50 units)		I
	MA 302100	Break contact, temperature decrease input, 24 V~ , max. 5 actuators		I
	MA 300200	Changeover contact (max. 5 actuators), 230 V~		I
	MA 300700	Changeover contact (max. 5 actuators), temperature decrease input, 230 V~		I

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Model/Picture	Item No.	Equipment	Circuit diagram	PG
	MA 301400	Break contact, heating indicator lamp, 230 V~		I
	MA 300400	Break contact, temperature decrease input, ON/OFF switch, heating indicator lamp, 230 V~		I
	MA 300500	Changeover contact (max. 5 actuators), heating/cooling switch, Climate controller for use with 2-pipe systems, especially heat pumps, 230 V~		I
RTBSB-201.065/02	MA 300502	same as RTBSB-201.065 but with numeric scale (*...6), minimum batch size 1 pack (50 units)		I
	MA 300600	Break contact, 3-way switch: temperature decrease/heating/temperature decrease via external timer, "heating" indicator lamp, 230 V~		I

