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Surface Type Room Temperature Controller super-slim design silent switching device





Technical data		Application
Operating voltage:	see "Features"	This Heating controller has been
Sensor:	NTC – internal	specially devised for the control and supervision of temperatures in offices,
Switching element:	triac	living spaces and hotels. It can trigger up to 5 valve drives (24 V~ or 230 V-,
Switching capacity:	15 W (max. 5 actuators 24 V~, normally closed types)	normally closed types). The HTRTB is equipped with an internal sensor. This
Setting range:	5 30 °C	sensor captures the currently existing room temperature and, as soon as it
Scale:	°C scale	detects a deviation of the actual value from the adjusted set value, activates
Power consumption:	< 0,8 W (5 VA)	the heating system as needed. The
Electrical connections:	screw terminals 0,5 1,5 mm ²	triac switching element used in place of a relay or bimetal relay, produces,
Admissible ambient temperature:	0 40 °C	in contrast to these components, no switching noises during the operation
Admissible storage temperature:	- 20 + 70 °C	of the device.
Admissible air moisture:	max. 95 % r.h., non-condensing	
Indication (LED):	yellow = heating	
Housing design:	Berlin 1000	
Housing material and colour:	plastic (ABS), pure white (similar to RAL 9010)	
Protection class:	see "Features"	
Degree of protection:	IP30	
Mounting method:	surface / wall mounting (4-hole fi xing on UP box)	

only 13.9 mm deep		(4-hole fi xing on UP box)		
Type / Picture	Item no.	Features	Wiring diagram	Euro / WG
HTRTB-250.100	MA700700	24 V~, protection class III, max. 5 actuators 24 V~, normally closed types	24V~ n.c5	53,70 / I
HTRTB-210.100	MA700600	230 V~, protection class II (after corresponding installation), max. 5 actuators 230 V~, normally closed types	230V~ Max.15W 1 2 4 4 9 1 1 1 1 1 1 1 1 1	57,10 / I



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Surface Type Room Temperature Controller super-slim design silent switching device





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Technical data		Application
Operating voltage:	see "Features"	This Air-conditioning regulator has
Sensor:	NTC – internal	been specially devised for the control and supervision of the heating and
Switching element:	triac	cooling operations performed by 2-pipe systems existing in hotel
Switching capacity:	15 W (max. 5 actuators, normally closed types)	rooms, living spaces and business premises. The device is able to trigger up to 5 valve drives (24 V~ or
Setting range:	5 30 °C	230 V~, normally closed types). The KTRTB measures, based on the data
Scale:	°C scale	delivered by an internal sensor, the temperature that exists in the related
Power consumption:	< 0,8 W (5 VA)	room and, in the event a deviation
Electrical connections:	screw terminals 0,5 1,5 mm ²	of the actual value with regard to the set value is detected, triggers the
Admissible ambient temperature:	0 40 °C	activation of the heating or cooling installation as needed. The triac
Admissible storage temperature:	- 20 + 70 °C	switching element used in place of a relay or bimetal relay, produces, in
Admissible air moisture:	max. 95 % r.h., non-condensing	contrast to these components, no switching noises during the operation of the device.
Indication (LED):	yellow = heating, blue = cooling	
Housing design:	Berlin 1000	
Housing material and colour:	plastic (ABS), pure white (similar to RAL 9010)	
Protection class:	see "Features"	
Degree of protection:	IP30	
Mounting method:	surface / wall mounting (4-hole fi xing on UP box)	

	(Those many on or box)				
Type / Picture	Item no.	Features	Wiring diagram	Euro / WG	
KTRTB-251.108	MA700400	24 V~, protection class III, max. 5 actuators 24 V~, normally closed types	24V~ 1	64,80 / I	
KTRTB-211.108	MA700300	230 V~, protection class II (after corresponding installation), max. 5 actuators 230 V~, normally closed types	230V~ 1	68,00 / I	

The controller is equipped with a joint heating/cooling output, the changeover operations of which are being triggered by an external contact (changeover contact). All controllers used for the management of the overall system can, based on this function, be changed over from one central point. The control direction of the device can, by means of the switch marked as switch No. 2 (see wiring diagram), be adapted to the operations triggered via this contact.

The operation in energy economizing mode can be triggered via an external contact (ECO contact). Selecting this mode enables to adjust to a temperature value that is by 3K lower while heating and to adjust to a temperature value that is by 3K higher while cooling. This allows, controlled by, for example, a time contact, to save energy in all currently unoccupied or unused rooms or floors in a centralised manner. The switch marked as switch No. 1 (see wiring diagram) allows to adapt the controller in such a manner that, instead of a decrease/increase of the temperature, it is being deactivated (frost protection function remains active).

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