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

alre



only 13.9 mm deep

Technical data

Operating voltage: Sensor: Switching element: Switching capacity:

Setting range: Scale: Power consumption: Electrical connections: Admissible ambient temperature: Admissible storage temperature: Admissible air moisture: Indication (LED): Housing design: Housing material and colour: Protection class: Degree of protection: Mounting method:

NTC - internal triac 15 W (max. 5 actuators 24 V~, normally closed types) 5... 30°C °C scale < 0,8 W (5 VA) screw terminals 0,5 ... 1,5 mm² 0 ... 40 °C -20 ... + 70 °C max. 95 % r.h., non-condensing yellow = heating Berlin 1000 plastic (ABS), pure white (similar to RAL 9010) see "Features" IP30

surface / wall mounting (4-hole fixing on UP box)

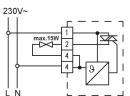
see "Features"

Application

This temperature controller has been specially devised for the control and supervision of temperatures in offices, living spaces and hotels. It can trigger up to 5 valve drives (24 V~ or 230 V-, normally closed types). The HTRTB is equipped with an internal sensor. This sensor captures the currently existing room temperature and, as soon as it detects a deviation of the actual value from the adjusted set value, activates the heating system as needed. The triac switching element used in place of a relay or bimetal relay, produces, in contrast to these components, no switching noises during the operation of the device.

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~ 1 1 1 1 1 1 1 1 1 1 1 1 1	52.30 / I
HTRTB-210.100	MA700600	230 V~, protection class II	230V~	55.60 / 1

230 V~, protection class II (after corresponding installation), max. 5 actuators 230 V~, normally closed types



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

alre

	25 20 15 0
alre	1

Image: only 13.9 mm deep

Technical data

Operating voltage: Sensor: Switching element: Switching capacity:

Setting range: Scale: Power consumption: Electrical connections: Admissible ambient temperature: Admissible storage temperature: Admissible air moisture: Indication (LEDs): Housing design: Housing material and colour: Protection class: Degree of protection: Mounting method: see "Features" NTC – internal triac 15 W (max. 5 actuators, normally closed types) 5 ... 30 °C °C scale < 0,8 W (5 VA) screw terminals 0,5 ... 1,5 mm² 0 ... 40 °C -20 ... + 70 °C max. 95 % r.h., non-condensing yellow = heating, blue = cooling Berlin 1000 plastic (ABS),

pure white (similar to RAL 9010)

see "Features"

surface / wall mounting (4-hole fixing on UP box)

IP30

Application

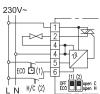
This controller has been specially devised for the control and supervision of the heating and cooling operations performed by 2-pipe systems existing in hotel rooms, living spaces and business premises. The device is able to trigger up to 5 valve drives (24 V~ or 230 V~, normally closed types). The KTRTB measures, based on the data delivered by an internal sensor, the temperature that exists in the related room and, in the event a deviation of the actual value with regard to the set value is detected, triggers the activation of the heating or cooling installation as needed. The triac switching element used in place of a relay or bimetal relay, produces, in contrast to these components, no switching noises during the operation of the device.

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~	63.10 / I

KTRTB-211.108

MA700300

230 V~, protection class II (after corresponding installation), max. 5 actuators 230 V~, normally closed types



66.20/1

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 3 K lower while heating and to adjust to a temperature value that is by 3 K 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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