

Data Sheet KTRTB-251.108

Article number: MA700400

Room thermostat, heating/cooling, surface-mounted, super-flat, 24 VAC, noiseless (triac)

This controller was specially developed for heating/cooling control in 2-pipe systems for hotels, residential and commercial premises and can control up to 5 valve actuators (normally closed). The KTRTB detects the room temperature with an internal sensor and activates the heating or cooling according to the deviation from the setpoint. The use of a triac as a switching element instead of a relay/bimetal means that there is no switching noise during operation. An internal switch can be used to configure the existing contact input as an ECO contact or standby contact. ECO function: If this function is selected, the temperature is reduced by 3 K in heating mode and increased by 3 K in cooling mode. Standby function: If this function is selected, the controller is switched off (frost protection remains active). Surface/wall mounting (4-hole mounting on flush-mounted box).



Number of outputs	1
Number of outputs, heating	1
Number of outputs, cooling	1
Number of control ranges	1
Actual temperature display	No
Temperature controller version	climate controller
Output signal	switching (PWM)
External setting	Yes

Operation	rotary knob
Operating voltage	24 VAC, 50 Hz
Design	Berlin 1000
Display	No
ECO input (reduction)	24 VAC, 50 Hz
ECO function (reduction)	Yes
Electric connection	screw terminals
Electronic control	Yes
Colour	pure white
RAL colour number (similar)	9010
Sensor element	NTC internal
Bearing temperature	-20 ... °C
Max. air humidity (non-condensing)	95 % r.H.
Housing material	plastic ABS
Max. power consumption	< 0,8 W
Max. switching voltage	24 VAC, 50 Hz
Max. switching current	625 mA
Mechanical range reduction	Yes
Medium	Air
Min. switching voltage	24 VAC, 50 Hz
With receiver	No
Mounting/attachment	surface mounting

Surface finish	gloss
Proportional range	approx. 1 K
Control range	5 ... 30 °C
Heating control function	Yes
Cooling control function	Yes
Control behaviour	switching PWM
Switching differential	Heating/cooling: 0 K
Switching difference, can be adjusted	No
Switching element	Triac
On/Off switch	No
Heating/cooling switch	No
Additional heating switch	No
Switch/lamp night-time reduction	No
Switching contact	NC contact
Potential free switching contact	No
Switching power	15 W
Protection class	IP30
Protection class	III
Sensor external	No
Safety and EMC	in accordance with DIN EN 60730
Scale	Degree Celsius
Ambient temperature	0 ... 40 °C

Type of wiring	other
Degree of contamination	2
Assembly	complete device
Dimensions (W x H x D)	78 mm x 78,5 mm x 13,9 mm

