

Datasheet KTRRB-052.245

Articlenumber: DA420700

Room thermostat for cooling ceilings, surface-mounted, 24V AC/V DC, 2-/4-pipe, off/comfort/ECO switch

Electronic surface-mounted climate controller for controlling heating/cooling in 2- and 4-pipe systems for hotels, residential properties and business premises. Up to 5 valve actuators (24V~, closed when de-energised or open when de-energised) can be controlled for each output. The switch can be used to select the off/comfort/ECO operating modes. Especially suitable for controlling cooling ceilings due to the option of dew point monitoring via optional external dew point sensors. In order to compensate for the inertia of control paths with cooling ceilings, the device has a temperature sensor input for activating an external radiation sensor (optional). The factory preset "zero point" of approx. 21...°C can be adjusted by +/- 5K in the device. The adjustment knob can be used to adjust the set temperature within the range +/- 3K of the set zero point. As a variant for public authorities that need the controller to be inaccessible to unauthorised people, the external sensor can also be implemented as a room sensor (optional). Using an internal Poti adapter, internal or external sensors, or both sensors, can be selected using adjustable weighting. Contact inputs for ECO function and OFF (frost protection).



Actual temperature display	No
Additional heating switch	No
Ambient temperature, lower value	0 °C
Ambient temperature, upper value	40 °C
Assembly	Complete device
Bearing temperature, lower value	-20 °C
Bearing temperature, upper value	70 °C
Colour	Pure white
Control behaviour	2-point
Control range, lower value	13 °C
Control range, upper value	29 °C
Cooling control function	Yes
Degree of contamination	2

Depth	25,5 mm
Design	Berlin 2000
Display	No
ECO function (reduction)	Yes
ECO input (reduction)	24 V AC / 50 Hz, 24 V DC
Electric connection	Screw terminals
Electronic control	Yes
Energy efficiency class	I
External setting	Yes
Heating / cooling switch	No
Heating control function	Yes
Height	83,4 mm
Housing material	Plastic ABS
Maximum air humidity (non-condensing)	95 % r.H
Maximum switching current	1 A
Maximum switching voltage	24 V AC / 50 Hz, 24 V DC
Mechanical range reduction	Yes
Minimum switching voltage	24 V AC / 50 Hz, 24 V DC
Mounting / attachment	Surface mounting
Neutral zone	Approx. 2 K
Number of outputs	2
Number of outputs, cooling	1
Number of outputs, heating	1
Off / comfort / ECO switch	Yes
On / Off switch	No
Operating voltage	24 V AC / 50 Hz, 24 V DC
Operation	Rotary knob and switches
Output signal	Switching (24 V AC, 50 Hz and/or 24 V DC)
Potential free switching contact	No
Protection class	III
RAL colour number (similar)	9010

Safety and EMC	In accordance with DIN EN 60730
Scale	Threshold arrows with "+" and "-"
Sensor element	NTC internal, optional NTC external
Surface properties	Matt
Switch/lamp night-time reduction	No
Switching contact	2 normally open contacts
Switching difference	Approx. 1 K
Switching difference, can be adjusted	No
Switching element	Relay
Switching power	24 W
Temperature controller version	Climate controller
Thermal feedback	No
Type of protection	IP30
Width	78,3 mm
With explosion protection	No

