

## Data Sheet KTRRU-052.245#00

Article number: UA210401

Room thermostat for chilled ceilings, flush-mounted, 24 VAC/VDC, switch Off/Comfort/ECO

Electronic flush-mounted climate controller for heating/cooling control in 2- and 4-pipe systems for hotel, residential and commercial premises. In conjunction with the corresponding cover set, suitable for all standard switch ranges. Matching cover set no. JZ-007.xxx Up to 5 valve actuators (24V~, normally closed) can be controlled per output. The switch can be used to select between the operating modes Off/Comfort/ECO. Particularly suitable for cooling ceiling control due to the option of dew point monitoring. To compensate for the inertia of controlled systems with cooling ceilings, the device has a temperature sensor input for connecting an external radiation sensor (optional). The factory-set "zero point" of approx. 21 °C can be adjusted by  $\pm 5$  K in the device. The setpoint temperature can be adjusted by  $\pm 3$  K around the set zero point using the adjustment knob. The external sensor can also be designed as a room sensor (optional) as an official variant, where the controller should be inaccessible to unauthorized persons. An internal potentiometer can be used to select the use of the internal or external sensor or the use of both sensors with an adjustable weighting. Contact inputs for ECO function and OFF (frost protection).



Number of outputs	2
Number of outputs, heating	1
Number of outputs, cooling	1
Actual temperature display	No
Temperature controller version	climate controller
External setting	Yes
Operation	rotary knob and switches

Operating voltage	24 VAC, 50 Hz / 24 VDC
Design	Berlin UP
Display	No
ECO function (reduction)	Yes
Electric connection	screw terminals
Electronic control	Yes
Energy efficiency class	I
Colour	anthracite
Sensor element	NTC internal, optional NTC external
Bearing temperature	-20 ... 70 °C
Max. air humidity (non-condensing)	95 % r.H.
Housing material	plastic PC
Max. switching voltage	24 VAC, 50 Hz / 24 VDC
Max. switching current	1 (1) A
Mechanical range reduction	Yes
Min. switching voltage	24 VAC, 50 Hz / 24 VDC
With receiver	No
Mounting/attachment	flush mounting (deep socket recommended)
Neutral zone	2 K
Surface finish	matt or gloss (see cover set)
Control range	13 ... 29 °C
Heating control function	Yes

Cooling control function	Yes
Control behaviour	2-point
Switching differential	Heating/cooling: 1 K
Switching difference, can be adjusted	No
Switching element	2 relays
Switch Off/Comfort/ECO	Yes
On/Off switch	Yes
Heating/cooling switch	No
Additional heating switch	No
Switch/lamp night-time reduction	No
Switching contact	2 normally open contacts
Potential free switching contact	No
Switching power	24 W
Protection class	IP30
Protection class	III
Sensor external	No
Safety and EMC	in accordance with DIN EN 60730
Scale	Relative scale
Ambient temperature	0 ... 40 °C
Type of wiring	other
Degree of contamination	2
Assembly	basic device

Dimensions (W x H x D)

71 mm x 71 mm x 49 mm

