

Datasheet KTRRB-117.169

Articlenumber: MA601500

Room thermostat, heating/cooling, surface-mounted, 230VAC, 3-stage fan output 0...10V or dynamic 0...10V

The KTRRB-117.169 air conditioning controller was specially developed to control EC fan coil units, EC fan coil units and other EC fan-assisted air conditioning systems in 2- or 4-pipe systems with normally closed valves. The KTRRB-117.169 is used here as an individual room temperature controller with an internal sensor or as an external control unit with an optional remote sensor. The optional external flow sensor is used to automatically switch the controller to heating or cooling mode in 2-pipe operation depending on the flow temperature; alternatively, this input can be used as an H/C changeover contact. 3-stage fan output 0-10 V with adjustment of the individual fan stages or dynamic 0-10 V for controlling EC fans. Fan operation in neutral zone ON/OFF selectable. In the event of a sensor break or sensor short circuit, the heating is activated with a duty cycle of 30 % to prevent cooling or frost damage in the room. 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 set to 3 K lower in heating mode and 3 K higher in cooling mode. Standby function: If this function is selected, the controller is switched off (frost protection remains active). Surface/wall mounting or by means of adapter plate on flush-mounted box.



Actual temperature display	No
Additional heating switch	No
Ambient temperature	0 ... 40 °C
Assembly	Complete device
Bearing temperature	-20 ... 70 °C
Colour	Anthracite
Control behaviour	2-point
Control range	5 ... 30 °C
Cooling control function	Yes
Degree of contamination	2
Design	Berlin 3000
Dimensions (W x H x D)	110 mm x 110,7 mm x 26 mm

Display	No
ECO function (reduction)	Yes
ECO temperature reduction	Approx. 3 K
Electric connection	Screw terminals
Electronic control	Yes
Energy efficiency class	I
External setting	Yes
Fan switch 3-stage	Yes
Heating control function	Yes
Housing material	Plastic ABS
Internal setting	No
Max. air humidity (non-condensing)	95 % r.H.
Max. switching current	5 (1) A, 5 (1) A
Max. switching voltage	230 VAC, 50 Hz
Mechanical range reduction	Yes
Min. switching voltage	230 VAC, 50 Hz
Montage/Befestigung	Surface mounting
Neutral zone	2 K
Number of control ranges	1
Number of outputs	2
Number of outputs, cooling	1
Number of outputs, heating	1
Off / fan man / fan auto switch	Yes
Operating voltage	230 VAC, 50 Hz
Operation	Rotary knob and switches
Output signal	Switching/continuous, 0 ... 10 V
Potential free switching contact	No
Protection class	II, following appropriate mounting
RAL colour number (similar)	9010
Safety and EMC	In accordance with DIN EN 60730
Scale	Degree Celsius

Schalter Ein/Aus	No
Schalter Heizen/Kühlen	No
Sensor element	NTC internal, optional NTC external
Sensor external	No
Surface finish	Matt
Switch/lamp night-time reduction	No
Switching difference, can be adjusted	No
Switching differential	Heating/cooling: 1 K
Switching power	1150 W
Temperature controller version	Climate controller
Test mark approval	CE
Type of wiring	Other
With receiver	No

