Data Sheet KTRRB-117.169

Article number: MA601500

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

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.

Number of outputs	2
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/continuous, 0 … 10 V

ALRE-IT Regeltechnik GmbH
Richard-Tauber-Damm 10
D-12277 Berlin
Telefon: +49 30 399 84-0 **Telefax:** +49 30 391 70 05 **E-Mail:** mail@alre.de www.alre.de

External setting	Yes
Operation	rotary knob and switches
Operating voltage	230 VAC, 50 Hz
Design	Berlin 3000
Display	No
ECO function (reduction)	Yes
Electric connection	screw terminals
Electronic control	Yes
Energy efficiency class	I
Colour	anthracite
RAL colour number (similar)	9010
Sensor element	NTC internal, optional NTC external
Internal setting	No
Bearing temperature	–20 … 70 °C
Max. air humidity (non-condensing)	95 % r.H.
Housing material	plastic ABS
Max. switching voltage	230 VAC, 50 Hz
Max. switching current	5 (1) A, 5 (1) A
Mechanical range reduction	Yes
Min. switching voltage	230 VAC, 50 Hz
With receiver	No
Mounting/attachment	surface mounting

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Neutral zone	2 K
Test mark approval	CE
Control range	5 … 30 °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
Off / fan man / fan auto switch	Yes
On/Off switch	No
Heating/cooling switch	No
Fan switch 3-stage	Yes
Additional heating switch	No
Switch/lamp night-time reduction	No
Potential free switching contact	No
Switching power	1150 W
Protection class	IP30
Protection class	II, following appropriate mounting
Sensor external	No
Safety and EMC	in accordance with DIN EN 60730
Scale	Degree Celsius
Ambient temperature	0 … 40 °C

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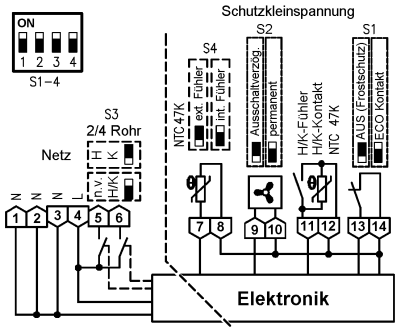
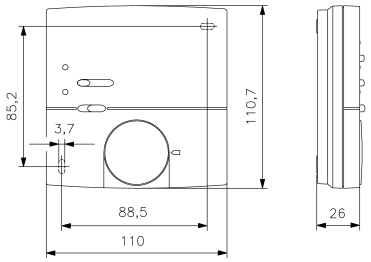
Type of wiring	other
Degree of contamination	2
Assembly	complete device
Dimensions (W x H x D)	110 mm x 110,7 mm x 26 mm





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