DBAT – clamp on thermostats

Clamp on thermostats for single-stage fluid temperature control in metal pipes for heating, cooling and air conditioning systems.



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

DBAT SERIES

APPLICATION AND USE

Single-stage fluid temperature control in metal pipes for heating, cooling and air conditioning plants.

Models with setpoint adjustment by knob on or under the cover, sensing element and mounting clamp for direct fixing on pipe.

Well-suited for heating, cooling and air conditioning systems in strong polluted areas, domestic and industrial areas, commercial buildings, sport halls, storage room, garages, machine rooms, factories, greenhouses and agricultural installations.

KEY FEATURES

- SPDT contact

Type	Range [°C]	Hysteresis [K]	Max. bulb temperature [°C]
DBAT-3	0...+60	2...20	75
DBAT-3U	0...+60	2...20	75
DBAT-5	+20...+90	2...20	110
DBAT-5U	+20...+90	2...20	110

U models with knob under cover

Technical data

Sensor:	liquid-filled coiled copper bulb
Contacts:	dust-tight microswitches with SPDT contacts (heat/cool)
Switch capacity:	15 (8) A, 24...250 V_{AC}
Hysteresis:	see table
Working conditions:	-35„.+65°C
	10...90 % r.h. (brak kondensacji)
Storage:	-40...+70°C
	< 95% r.h.
Housing:	Bayblend base, ABS cover
	DBAT- 0xx: galvanized steel plate
	not sealed ABS cover
Protection:	IP65, class 1
Dimensions:	108 x 70 x 72 mm
Weight:	180...500 g

REMARK

The range may be calibrated by tuning carefully the hexagon nut under the knob (fig. 1 on next page).

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Wiring diagram

Heating
Stage 1: connect terminals 2 and 3 (fig. 1 and fig. 2).
Stage 2: connect terminals 5 and 6 (fig. 2).
The contacts open during the temperature rising.

Cooling
Stage 1: connect terminals 1 and 2 (fig. 1 and fig. 2).
Stage 2: connect terminals 4 and 5 (fig. 2).
The contacts open during the temperature dropping.
The respective free contacts close simultaneously (signal contact).

The two stages are completely independent.

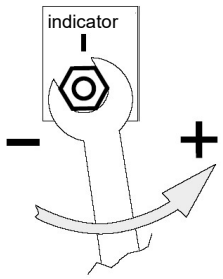


Fig. 1

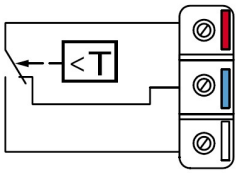
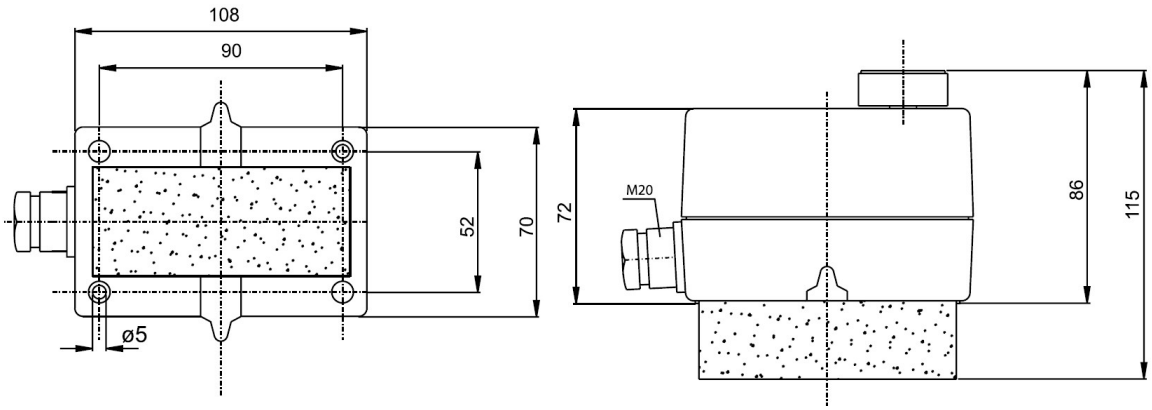


Fig. 2

DIMENSIONS [mm]



Due to continuous product improvement, specifications are subject to change without notice.

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