



SINGLE AND MULTI-STAGE CAPILLARY THERMOSTATS

DBET

FUNCTION

Temperature control by independent loads with adjustable differential in:

- heating, cooling and air conditioning systems;
- heating and cooling systems with dead zone.

Models with setpoint adjustment by knob on or under the cover and possible range calibration.

APPLICATIONS

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

The sensible element is suitable for the non aggressive liquids and gases control.

TYPE	RANGE °C	STAGES	HYSTERESIS IN THE STAGE K	HYSTERESIS BETW. THE STAGE K	MAW. BULB TEMP. °C	POCKET (*)
DBET-4	-30...+30	1	2...20		60	DBZ-01/02
DBET-4U	-30...+30	1	2...20		60	DBZ-01/02
DBET-4/2	-30...+30	2	1	2...5	60	DBZ-01/02
DBET-5	-30...+30	1	1		60	DBZ-01/02
DBET-5U	-30...+30	1	1		60	DBZ-01/02
DBET-6	-30...+30	1	FT		60	DBZ-01/02
DBET-7	0...+60	1	2...20		75	DBZ-01/02
DBET-7/2	0...+60	2	1	2...5	75	DBZ-01/02
DBET-8	0...+60	1	1		75	DBZ-01/02
DBET-16	+20...+90	1	2...20		100	DBZ-01/02
DBET-16U	+20...+90	1	2...20		100	DBZ-01/02
DBET-17	+20...+90	1	1		100	DBZ-01/02
DBET-18	+20...+90	1	ST		100	DBZ-01/02
DBET-10	+50...+120	1	2...20		150	DBZ-16/17
DBET-11	+50...+120	1	1		150	DBZ-16/17

- (*) **DBZ-01** pocket brass 120mm, 12 x 1
DBZ-02 pocket stainless steel 120mm, 12 x 1
DBZ-16 pocket brass 120mm, 10 x 0.5
DBZ-17 pocket stainless steel 120mm, 10 x 0.5

- U** knob under the cover
FT manual minimal reset
ST manual maximum reset

TECHNICAL FEATURES

- Sensitive element:** liquid-filled coiled copper bulb
Dim. bulb: Ø 9.5 (Ø 8 for range +50...+120 °C)
Dim. capillary: 150 cm
Contacts: dust-tight voltage free microswitches with SPDT contacts (heat/cool)
Switch capacity: 15 (8) A, 24...250 Vac
Differentials: see schedule
Working: -35...+65 °C
 10...90% h.r. (non condensing)
Storage: -40...+70 °C
 < 95% u.r.
Housing: Byblend base, ABS cover
Protection: IP65, class I
Dimensions: 108 x 70 x 72 mm
Weight: 340 g

NOTE

The range may be calibrated by tuning carefully the hexagon nut under the knob.

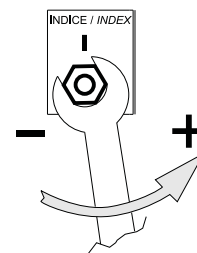


fig. 1

ELECTRICAL WIRING

Heating

Connect red (common terminal) to blue terminal; while temperature is rising, the contacts of stages open, in sequence, from the last to the first.

Cooling

Connect red (common terminal) to white terminal; while temperature is dropping, the contacts of stages open, in sequence, from the first to the last (fig2).
The respective free contacts close simultaneously (signal contact).

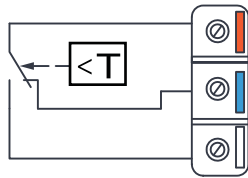


fig. 2

DIMENSIONS (mm)

