



Single and multi-stage capillary thermostats

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 set point adjustment by knob upper or under the cover and possible range reset.

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

Range °C	Type	Stages	Diff. in the stage °C	Diff. betw stages °C	Max bulb temp. °C	Pocket (*)	Special versions
-30...+30	DBET-4	^^ 1	2...20		60	DBZ-01/02	GU
-30...+30	DBET-5	1	1		60	DBZ-01/02	GU
-30...+30	DBET-6	1	FT		60	DBZ-01/02	GU
-30...+30	DBET-4/2	^^ 2	1	2...10	60	DBZ-01/02	GU
0...+60	DBET-7	1	2...20		75	DBZ-01/02	GU
0...+60	DBET-8	1	1		75	DBZ-01/02	GU
0...+60	DBET-9FT	^^ 1	FT		75	DBZ-01/02	GU
0...+60	DBET-9ST	1	ST		75	DBZ-01/02	GU
0...+60	DBET-7/2	2	1	2...10	75	DBZ-01/02	GU
+20...+90	DBET-16	1	2...20		100	DBZ-01/02	U
+20...+90	DBET-17	1	1		100	DBZ-01/02	U
+20...+90	DBET-18 ³	1	ST		100	DBZ-01/02	U
+20...+90	DBET-16/2	2	1	2...10	100	DBZ-01/02	U
+50...+120	DBET-10 ³	^^ 1	2...20		150	DBZ-16/17	U
+50...+120	DBET-11 ³	1	1		150	DBZ-16/17	U
+50...+120	DBET-12 ³	1	ST		150	DBZ-16/17	U
+50...+120	DBET-10/2 ³	2	1	2...10	150	DBZ-16/17	U

^^ Standard USA version available w/ °F scale and allowance for 1/2 NPT connector (refer to price list for additional data)

³ subject according to CE 0497 certification Directive 97/23/CE_Module H1

(*) on request

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

(**) by factory with knob under the cover

Special models

- C models for panel mounting (without cover)
- G 4.5 m capillary length, $\varnothing 10$
- U knob under the cover
- FT manual minimal reset
- ST manual maximum reset

Note

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

TECHNICAL FEATURES

- Sensitive elem.:** liquid-filled coiled copper bulb
- Dim. bulb:** $\varnothing 9.5$ ($\varnothing 8$ for range $+50...+120$ °C)
- Dim. capillary:** 150 cm
- Contacts:** dust-tight micro-switches voltage-free with switching SPDT contacts (heat/cool)
- Switch capacity:** 15 (8) A, 24...250 Vac
- Differentials:** see schedule
- Working temp.:** $-35...+65$ °C
- Storage:** $-40...+70$ °C
- Housing:** DBET: Byblend base, ABS cover

Size: DBET: 108 x 70 x 72 mm

Protection: IP65, class I

ELECTRICAL WIRINGS / DIMENSIONS

Heating

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

Cooling

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

The respective free contact closes simultaneously (signal contact).

