



## BOILER THERMOSTATS

DBTV

### FUNCTION

Temperature control in pipes with normal fluids (water) for heating, cooling and air conditioning systems, boilers and heaters.

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

### APPLICATIONS

Well-suited for general applications in strong polluted domestic and industrial areas.

TYPE	RANGE °C	HYSTERESIS K	MAX. BULB TEMP °C	POCKET LENGTH mm	SPECIAL VERSIONS
DBTV-1	-30...+30	2...20	60	120/Ø10	U/2
DBTV-2	-30...+30	1	60	120/Ø10	U
DBTV-3	-30...+30	FT	60	120/Ø10	U
DBTV-7	0...+60	2...20	75	120/Ø10	U/2
DBTV-8	0...+60	1	75	120/Ø10	U
DBTV-9FT	0...+60	FT	75	120/Ø10	U
DBTV-9ST	0...+60	ST	75	120/Ø10	U
DBTV-16	+20...+90	2...20	100	120/Ø10	U/2
DBTV-17	+20...+90	1	100	120/Ø10	U
DBTV-18	+20...+90	ST	100	120/Ø10	U
DBTV-10	+50...+120	2...20	140	120/Ø10	U/2
DBTV-11	+50...+120	1	140	120/Ø10	U
DBTV-12	+50...+120	ST	140	120/Ø10	U

- U** knob under the cover
- FT** manual minimal reset
- ST** manual maximum reset
- /2** 2 stage version with adjustable differential between the stages 2...5 K and in the stage fixed 1 K

#### Accessories:

Thermostats are factory supplied with standard DBZ-16/14 brass pocket (120 mm, Ø 10 x 0.5)

On request pockets in stainless steel with various lengths.

### TECHNICAL FEATURES

- Sensitive element:** liquid-filled coiled copper bulb
- Contacts:** dust-tight microswitches with SPDT contacts (heat/cool)
- Switch capacity:** 15 (8) A, 24...250 Vac
- Differentials:** see schedule
- Working** -35...+65 °C  
10...90% r.h. (non condensing)
- Storage:** -40...+70 °C  
< 95% r.h.
- Housing:** Byblend base, ABS cover
- Protection:** IP65, class I
- Size:** 108 x 70 x 72 mm
- Weight:** 570 g

#### Note

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

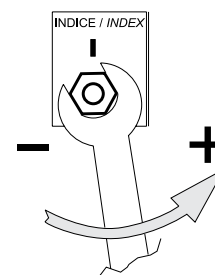


fig. 1

**ELECTRICAL WIRING**

**Heating**

Connect red terminal and blue terminal (fig. 2).  
 The contact opens during the temperature rising.  
 2-stage versions: during the temperature rising, the contact of stage 2 opens first, then the contact of stage 1.

**Cooling**

Connect red terminal and white terminal (fig. 2).  
 The contact opens during the temperature dropping.  
 2-stage versions: during the temperature dropping, the contact of stage 1 opens first, then the contact of stage 2.  
 The respective free contacts close simultaneously (signal contact).

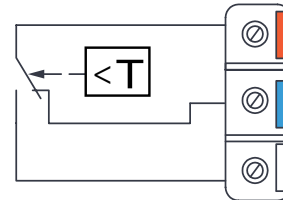


fig. 2

**DIMENSIONS (mm)**

