



## BOILER THERMOSTATS, IP65

**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	DIFFERENTIAL K	MAX. BULB TEMP °C	POCKET LENGTH mm
DBTV-1	-30...+30	2...20	60	120/Ø10
DBTV-2U	-30...+30	1	60	120/Ø10
DBTV-7	0...+60	2...20	75	120/Ø10
DBTV-7U	0...+60	2...20	75	120/Ø10
DBTV-8	0...+60	1	75	120/Ø10
DBTV-8U	0...+60	1	75	120/Ø10
DBTV-11	+50...+120	1	140	120/Ø10
DBTV-16	+20...+90	2...20	100	120/Ø10
DBTV-17	+20...+90	1	100	120/Ø10
DBTV-17U	+20...+90	1	100	120/Ø10
DBTV-18	+20...+90	ST	100	120/Ø10
DBTV-18U	+20...+90	ST	100	120/Ø10
<b>Accessories</b>	DBZ-16/14 - Brass pocket 120mm, 10 x 0.5			
	DBZ-17/14 - Stainless steel AISI 304 pocket 120mm, 10 x 0.5			

**Note:** the thermostats are supplied with standard pocket model DBZ-16/14

**U** models with range under the cover

**ST** manual maximum reset

### TECHNICAL DATA

<b>Sensitive element:</b>	liquid-filled coiled copper bulb
<b>Contacts:</b>	dust-tight microswitches with SPDT contacts (heat/cool)
<b>Switch capacity:</b>	15 (8) A, 24...250 Vac
<b>Differential:</b>	see schedule
<b>Working</b>	-35...+65 °C
	10...90% r.h. (without condensing)
<b>Storage:</b>	-40...+70 °C
	< 95% r.h.
<b>Housing:</b>	Bayblend base, ABS cover
<b>Protection:</b>	IP65, class I
<b>Size:</b>	108 x 70 x 72 mm
<b>Weight:</b>	570 g

### Note

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

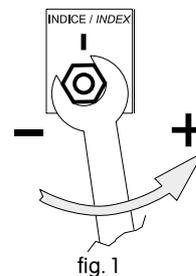
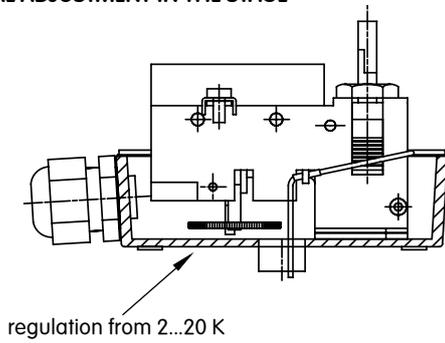


fig. 1

**DIFFERENTIAL ADJUSTMENT IN THE STAGE**



**WIRING DIAGRAM**

**Heating**

Connect to red terminal and to blue terminal (fig. 2).  
The contact opens during the temperature rising.

**Cooling**

Connect to red terminal and to white terminal (fig. 2).  
The contact opens during the temperature dropping.

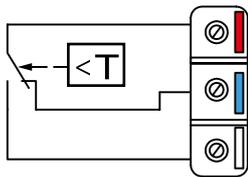
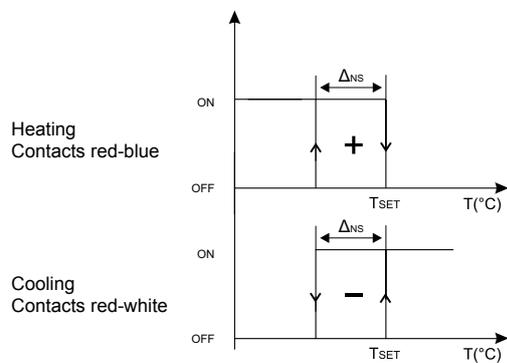


fig. 2

**Logic activation:**



$\Delta_{NS}$ : differential in the stage  
 $T_{SET}$ : setting setpoint  
 ON: closed contact  
 OFF: open contact

**DIMENSIONS (mm)**

