BOILER THERMOSTATS WITH MANUAL RESET, IP54 TV

FUNCTION

Temperature control in pipes with normal fluids (water) for heating, cooling and air conditioning systems, boilers and heaters. Models with TB function, manual maximum reset.

APPLICATIONS

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

TYPE	RANGE 1 °C	RANGE 2 °C	DIFFERENTIAL RANGE 1 K	DIFFERENTIAL RANGE 2 K	MAX. BULB TEMP. °C	FUNCTION
TV090	0...+90		4±1		120	TR
TV090U	0...+90		4±1		120	TR
TVR6585	+65...+85		20±5		125	TB
TVR90110	+90...+110		20±5		125	TB
TV09090U	0...+90	0...+90	4±1	4±1	120	TR + TR
TV090UR85	0...+90	65 - 85	4±1	20±5	120	TB + TR

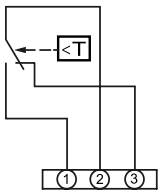
Accessory	DBZ-30/14 - Brass pocket 120mm, 10 x 0.5
	DBZ-40/14 - Brass pocket 120mm, 16
	DBZ-31/14 - Stainless steel AISI 304 pocket 120mm, 10 x 0.5
	DBZ-41/14 - Stainless steel AISI 304 pocket 120mm, 16

Note: the thermostats are supplied with standard pocket models DBZ-30/14 and DBZ-40/14
U models with range under the cover
TR with SPDT contact
TB manual maximum reset
The unit can be resetted only if the temperature drops the setpoint minus the value of differential.

TECHNICAL DATA

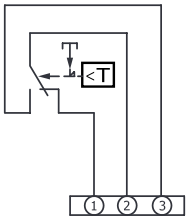
Sensitive element: copper bulb with 120 mm brass pocket (on request with 200 mm length)
Contacts: dust-tight microswitches with SPDT contacts (heat/cool)
Switch capacity: see wiring diagrams
Differential: see schedule
Working -35...+65 °C
10...90 % r.h. (without condensing)
Storage: -20...+70 °C
< 95% r.h.
Housing: Bayblend base, ABS cover
2 stage models: sealed ABS
Protection: IP54, class I
Size: 108 x 70 x 72 mm
132 x 88 x 70 mm (2 stage models)
Weight: 440 g ... 560 g

WIRING DIAGRAM



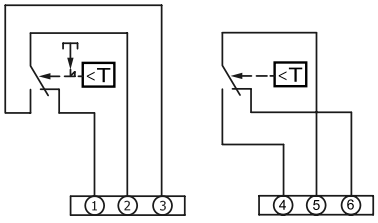
TR

NC 250 Vac 16 (6) A
NO 250 Vac 6 (4) A



TB

NC 250 Vac 16 (2,5) A
NO 250 Vac 0,5 A



TB + TR

NC 250 Vac 16 (2,5) A
NO 250 Vac 0,5 A

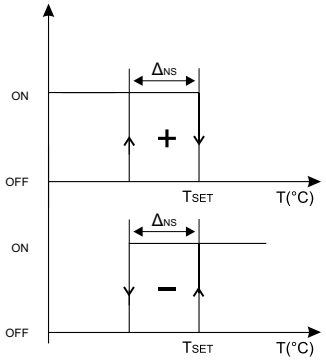
NC 250 Vac 16 (6) A
NO 250 Vac 6 (4) A

Logic activation:

Valid only for TR function:

Heating
Contacts 2-3

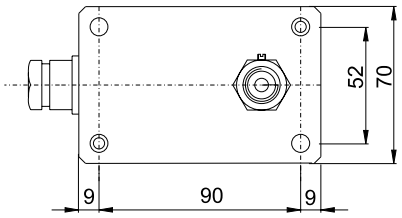
Cooling
Contacts 1-2

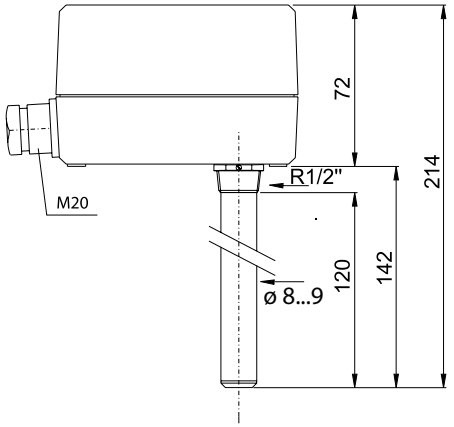
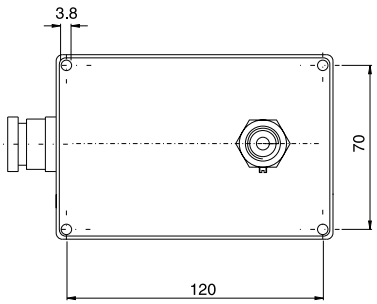
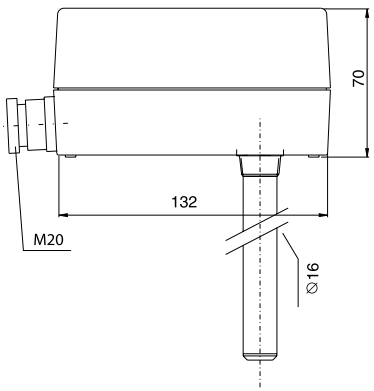


ΔNS: differential in the stage
TSET: setting setpoint
ON: closed contact
OFF: open contact

DIMENSIONS (mm)

One stage model





Multistage model