NENUTEC®

INNOVATIVE MEMBER OF SWISTEC

TV – boiler thermostats

Duct type thermostats for monitoring of fluids in HVAC systems



The appearance of the product may differ from the illustration. Technical specifications are subject to change.

TV SERIES

APPLICATION AND USE

Temperature control in pipes with non-aggressive fluids (water), for HVAC systems, boilers and heaters.

Temperature monitoring and safety protection with manual reset and signal contact.

KEY FEATURES

- SPDT contact
- versions with manual reset, with a knob under the cover
- Sensor pocket, length 120 mm

Type	RANGE 1 [ºC]	RANGE 2 [ºC]	Hysteresis for range 1 [K]	Hysteresis for range 2 [K]	Max. bulb temperature [°C]	Function
TV090	0...+90		4±1		120	TR
TV090U	0...+90		4±1		120	TW
TVR6585	+65...+85		20±5		125	STB
TVR90110 [2]	+90...+110		20±5		125	STB
TV09090U [2]	0...+90	0...+90	4±1	4±1	120	TW + TW
TV090UR85 [2]	0...+90	65 - 85	4±1	20±5	120	TW+ STB

[2] Products well-suited for applications with pressure <= 0.5 bar

U Knob under the cover

TR With SPDT contact

TW With knob under the cover, SPDT contact

STB with manual security reset, SPDT contact

Accessories:

Thermostats are factory supplied with standard pocket model:

DBZ-30/14 brass pocket 120 mm, Ø 10 x 0.5

DBZ-40/14 brass hexagonal pocket 120 mm, Ø 16 (for two stage models)

On request in stainless steel AISI 304 (DBZ-31/14 or DBZ-41/14).

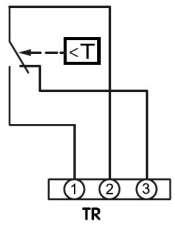
Technical specifications

Sensor:	copper bulb with 120 mm brass pocket (on request with various lengths and in stainless steel)
Contacts:	dust-tight microswitches with SPDT contacts (heat/cool)
Switch capacity:	see wiring diagrams
Hysteresis:	see table
Working:	-35...+65°C
	10...90 % rH (non condensing)
Storage:	-20...+70 °C
	< 95% r.h.
Housing:	Bayblend base, ABS cover
	two stage models: sealed ABS
Protection:	IP54, class I
Dimensions:	108 x 70 x 72 mm
	132 x 88 x 70 mm (2 stage models)
Weight:	440 g ... 560 g

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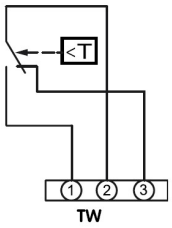
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Wiring diagram



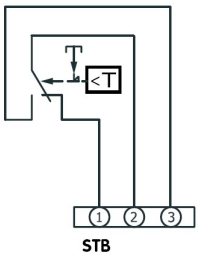
TR

NC 16 (6) A 250 V_{AC}
NO 6 (4) A 250 V_{AC}



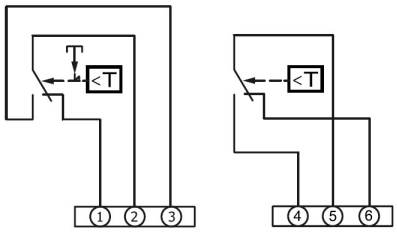
TW

NC 16 (6) A 250 V_{AC}
NO 6 (4) A 250 V_{AC}



STB

NC 16 (2.5) A 250 V_{AC}
NO 0.5 A, 250 V_{AC}



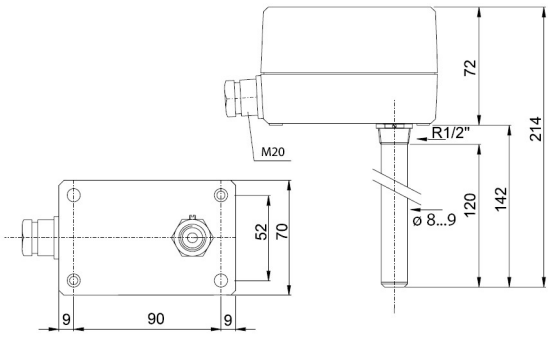
TW + STB

NC 16 (2.5) A 250 V_{AC}
NO 0.5 A, 250 V_{AC}

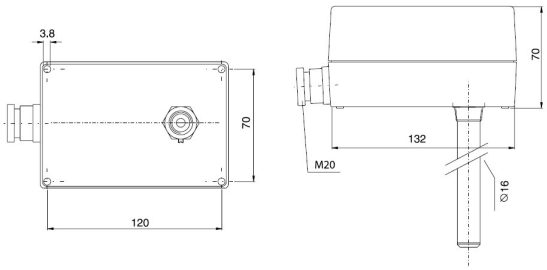
NC 16 (6) A 250 V_{AC}
NO 6 (4) A 250 V_{AC}

DIMENSIONS [mm]

One stage model



Two stage model



Due to continuous product improvement, specifications are subject to change without notice.

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