domat
control system

DBTV	**Pocket thermostats**

Summary

Thermostats for monitoring, control or limitation of temperature of liquid media in HVAC installations and in machinery constructions.

Applications

- **HVAC systems – temperature controls, safety circuits etc.**

Functions

Temperature changes over the limit influence a change-over or NC contact which is available at the terminals. Setpoint knob to set the switching temperature can be set manually.

Technical data

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Switching capacity	10 (1.5)A, 24...250 V AC
Contact	dust protected contact block, single or double potential-free changeover contact
Cover	ABS, reinforced with glass fiber
Ambient temperature	-10...65°C
Pocket	G1/2", brass; stainless steel as option
Immersion length	120mm, on demand 200mm
Protection	IP54 / IP65
Tests	TÜV, DIN 3440 (STB 112299, TR 110497, TR/STB 112199)
Function TR * (controller)	at temperature above the preset value: contacts 2-3 open.
STB/STW * (safety limiter / indicator)	at temperature above the preset value: contacts 2-1 open. They close again after cooling down by about 15...20K and pressing of the reset button

Types

The thermostats are delivered with different functions and temperature ranges:

Type	Range 1 (°C)	Range 2 (°C)	Hysteresis 1 (K)	Hysteresis 2 (K)	Max. temperature	Function	IP	Cert.
DBTV-060	0...60	-	3	-	75 °C	TR	54	TÜV
DBTV-060U	0...60	-	3	-	75 °C	TW	54	
DBTV-090U	0...90	-	3	-	120 °C	TW	54	
DBTV-3090	30...90	-	3	-	120 °C	TR	54	TÜV
DBTV-50140	50...140	-	5	-	150 °C	TR	54	
DBTV-R6585	65...85	-	0/-15...20	-	120 °C	STB	54	TÜV
DBTV-R90110	90...110	-	0/-15...20	-	120 °C	STB	54	TÜV
DBTV-060R85	0...60	65...85	3	0/-15...20	120 °C	TR+STB	54	TÜV
DBTV-090090U	0...90	0...90	3	3	120 °C	TW+TW	54	
DBTV-3090R110	30...90	90...110	3	0/-15...20	120 °C	TR+STB	54	TÜV
DBTV-1	-30...30	-	2...20	-	60 °C	TR	65	
DBTV-7	0...60	-	2...20	-	75 °C	TR	65	
DBTV-16	30...90	-	2...20	-	100 °C	TR	65	
DBTV-10	50...120	-	2...20	-	140 °C	TR	65	

TR*   temperature controller
TW*   temperature indicator
STB*   safety temperature limiter

Terminals

1-step:

TR   STW   STB

2-step:

STB+TR   TW   TW
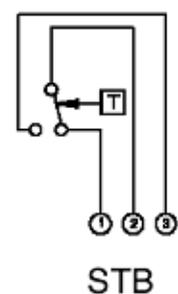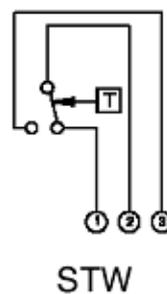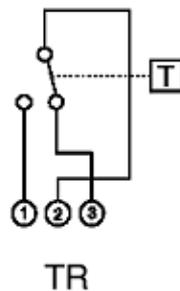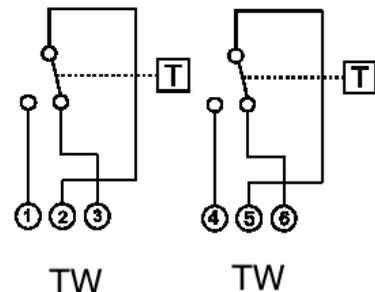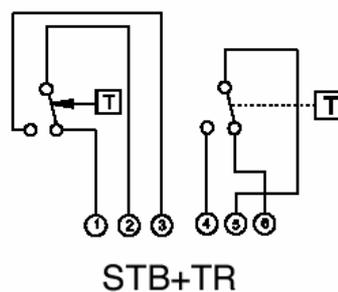
* All functions as in EN 14597, Temperature control devices and temperature limiters for heat generating systems.

Internal settings

The **..U** types have internal setpoint settings available after removing the cover.

Dimensions