

Mechanical Thermostat

Technical data

Normal version



...300

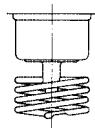
Ex-version



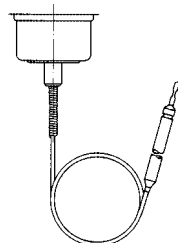
...700

Switching housing	Aluminium diecast GDAISi 12	Aluminium diecast GDAISi 12
Switching function and connection drawing (applies only for version with microswitch)	Floating change-over contact. With rising pressure switching over single-pole from 3-1 to 3-2.	Floating change-over contact. With rising pressure switching over single-pole from 3-1 to 3-2.
Switching capacity (applies only for version with microswitch)	8 A at 250 VAC 5 A at 250 VAC inductive 8 A at 24 VDC 0.3 A at 250 VDC	3 A at 250 VAC 2 A at 250 VAC inductive 3 A at 24 VDC 0.03 A at 250 VDC
Installation position	arbitrary, preferably vertical	vertical
Degree of protection (in vertical position)	IP 65	IP 65
Ex degree of protection	-	Ex II 2 G/D EEx de IIC T6 IP65 T80°C
PTB-approval	-	PTB 02 ATEX 1121
Electrical connection	Terminal connection	Terminal connection
Cable entry	M 16 x 1,5	M 16 x 1,5
Ambient temperature	-15 to +70 °C	-15 to +60 °C
Switching point	Adjustable with spindle	Adjustable with spindle after the terminal box lid is removed.
Switching difference	Adjustable or not adjustable (see type overview)	Not adjustable
Medium temperature	Max. 70 °C, briefly 85 °C	Max. 60 °C
Vibration strength	Up to 4 g no noteworthy deviations.	
Isolation values	Overvoltage category III, contamination class 3, reference surge voltage 4000 V. The conformity to DIN VDE 0110 (01.89) is confirmed.	

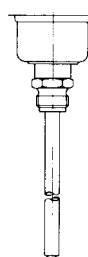
Probe systems



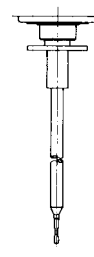
Room probe
TRM



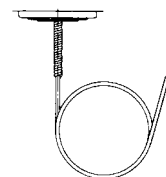
Capillary tube probe
TAM



Rod probe
TX + R 1



Air duct probe
TX + R 6



Frost protection probe
FT

Type series TAM

Capillary tube thermostats with 1.5 m capillary tube

The sensor cartridge at the end of the capillary tube is the actual active (temperature-sensitive) part of the sensor. Changes in temperature on the capillary tube have no effect on the switching point. Pressure-tight installation of the sensor in pressure vessels of all kinds is possible with the aid of immersion tubes.

Immersion tubes R....



TAM 490-301

<i>Range of adjustment</i>	<i>Switching diff. (Mean value)</i>	<i>Max. allowable temperature on sensor</i>	<i>Type</i>
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Switching differential not adjustable

-20/+20 °C	1.5 K	110 °C	TAM 022-301
+10/+50 °C	1.5 K	110 °C	TAM 150-301
+40/+90 °C	2.0 K	125 °C	TAM 490-301
+80/+130 °C	2.0 K	150 °C	TAM 813-301



-version · Degree of protection  **II 2 G/D EEx de IIC T6 IP65 T80°C**

<i>Range of adjustment</i>	<i>Switching diff. (Mean value)</i>	<i>Max. allowable temperature on sensor</i>	<i>Type</i>
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-20/+20 °C	1.5 K	110 °C	Ex-TAM 022
+10/+50 °C	1.5 K	110 °C	Ex-TAM 150
+40/+90 °C	2.0 K	125 °C	Ex-TAM 490
+80/+130 °C	2.0 K	150 °C	Ex-TAM 813