

Mechanical Thermostat

Technical data

Normal version



...300

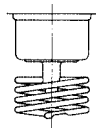
Ex-version



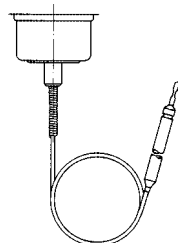
...700

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.	

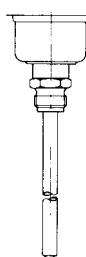
Probe systems



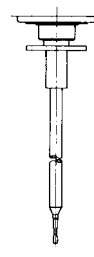
Room probe
TRM



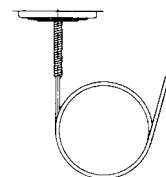
Capillary tube probe
TAM



Rod probe
TX + R 1



Air duct probe
TX + R 6



Frost protection probe
FT

Type series TX

Rod thermostats (without immersion tube)



TX 023-301

Rod thermostats can be installed as immersion thermostats in pipelines and containers and for monitoring temperature in air ducts. **The suitable immersion tube has to be chosen according to the application.**

Range of adjustment	Switching diff. (Mean value)	Max. allowable temp. on sensor	Immersion depth (mm)	Type
-20/+30 °C	1.5 K	110 °C	135	TX 023-301
+10/+50 °C	1.5 K	110 °C	135	TX 150-301
+40/+90 °C	2.5 K	125 °C	135	TX 490-301
+80/+130 °C	4.0 K	150 °C	135	TX 813-301
-20/+30 °C	1.5 K	110 °C	220	TXB 023-301
+10/+50 °C	1.5 K	110 °C	220	TXB 150-301
+40/+90 °C	2.5 K	125 °C	220	TXB 490-301
+80/+130 °C	4.0 K	150 °C	220	TXB 813-301



Ex-TX 150

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

Range of adjustment	Switching diff. (Mean value)	Max. allowable temp. on sensor	Immersion depth (mm)	Type
-20/+30 °C	1.5 K	110 °C	135	Ex-TX 023
+10/+50 °C	1.5 K	110 °C	135	Ex-TX 150
+40/+90 °C	2.5 K	125 °C	135	Ex-TX 490
-20/+30 °C	1.5 K	110 °C	220	Ex-TXB 023
+10/+50 °C	1.5 K	110 °C	220	Ex-TXB 150
+40/+90 °C	2.5 K	125 °C	220	Ex-TXB 490