

Probe thermostat

Probe thermostat with contact output binary sensor in hazardous locations zones 1 and 2

TBT-2G 0/90-U
ATEX compliant

APPLICATION

TBT-2G... the thermostate is suitable for temperature controll, limitation and regulation for non aggressive gas or liquid. In combination with EEx-i switch Type EXL-IRU-1 with intrinsic safe circuit the sensors may be used in hazardous areas zones 1 and 2

TECHNICAL DATAS

Type	TBT-2G 0/90U
Supply	by EXL-IRU-1
Contact	dust encapsulated single micro switch
Ambient temperature	-10...+65 °C
Storage temperature	-20...+80 °C
Range	0... 90 °C adjustment inside
Hysteresis	3 K
Enclosure	Plastic, ABS reinforced, IP54
Sensor material	G 1/2", brass (optional stainless steel)
Total length	130 mm
Dimension	108 x 72,5 x 70 mm
Protection class	simple apparatus acc. to EN 60079-11
CE	94/9/EC (ATEX)
Includes in price	1 thermostat Type TBT-2G 0/90-U
Installation area	Zone 1, 2 by using the switch module Type EXL-IRU-1

**suitable for
Zone 1, 2
acc. to ATEX**



Ex-i CIRCUIT - TABLE 1

Operation values maximum at terminal

Simple apparatus suitable for Zone 1, 2

Only for connecting to intrinsically safe circuits with max values

Voltage	Uo	13,5 VDC
Current	Io	23 mA
Power	Po	76 mW
Capacity	Ci	0 μ F
Inductivity	Li	0 mH

MOUNTING AND INSTALLATION

For installation remove the two screws in the cover. Mounting is in any position possible. At wall mounting use the holes in the housing. After installation fix all screws and cable entry tight.

FUNCTION

Heating

Connect 2 - 3 terminal; the contact opens while rising of the temperature. The

Cooling

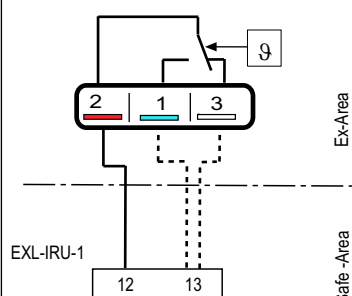
Connect 2 - 1 terminal; the contact opens while dropping of the temperature.

MAINTENANCE

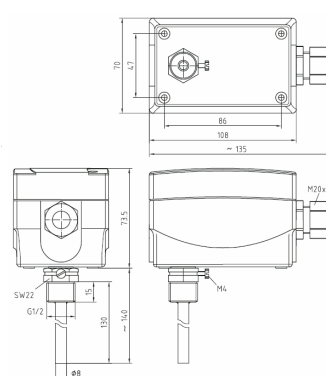
The thermostat is maintenance free!

ELECTRICAL CONNENCTION

TBT-2G



DIMENSIONS



ATTENTION!

- For installation, use and maintenance the official standards and rules must be applied.
- The energy of intrinsically safe circuits are below the level to start an explosion in case of a spark..
- Intrinsic safe circuits must be installed with light blue coloured and separate from non intrinsic safe circuits.
- The sensor is passiv and potential free for use in hazardous locations in zone 1, 2.
- Pay attention to the max values for wiring, listed in table 1.
- Avoid electrostatic discharge.
- Only wet cleaning.