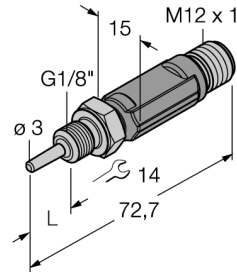


Temperature measurement

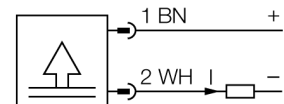
With Current Output

TTM100C-103A-G1/8-LI6-H1140-L013



- Miniature design
- Analog output 4...20 mA
- Factory setting 0...100 °C (other settings on request)
- Process connection G1/8" male thread

Wiring Diagram



General description

Temperatures are recorded over a mineral insulated transmitter and converted into a wide range of electrical output signals.

The devices of the TTM miniature series are enclosed in a fully potted plastic housing and depending on the variant, they have either an IO-link output, power output and/or switching output.

Type designation		TTM100C-103A-G1/8-LI6-H1140-L013
Ident-No.		9910549
Temperature range		
Measuring range		0...100 °C
Temperature operating range		32...212 °F
Note		Max. temperature of electronics: 80 °C/176 °F
Measuring element		Pt-1000 probe, DIN EN 60751, class A
Response time		t 0.5 = 1.5 s / t 0.9 = 6.0 s in water at 0.2 m/s
Immersion depth (L)		13 mm
Power supply		
Operating voltage		10...24 VDC
Current consumption		≤ 20 mA
Short-circuit/reverse polarity protection		yes / yes
Protection type and class		IP67 / III
Outputs		
Output 1		Analog output
Analog output		
Operating range		4...20 mA (2-wire)
Load		≤ 0.7 kΩ
Accuracy (Lin. + Hys. + Rep.)		± 0.2 K
Temperature behaviour		
Temperature coefficient zero point Tk0		± 0.1 % of full scale/10 K
Temperature coefficient span T _{KS}		± 0.1 % of full scale/10 K
Ambient conditions		
Ambient temperature		-40...+80 °C
Storage temperature		-40...+80 °C
Housing		
Housing material		Stainless-steel/Plastic, V4A (1.4404)
Sensor material		Stainless steel, V4A (1.4404)
Process connection		G1/8" male thread
Electrical connection		Connector, M12 × 1
Pressure resistance		100 bar
Reference conditions acc. to IEC 61298-1		
Temperature		15...+25 °C
Atmospheric pressure		860...1060 hPa abs.
Humidity		45...75 % rel.
Auxiliary power		24 VDC