

TMA - Temperature Transmitters



Benefits and Features

- High accuracy
- 4-20 mA loop powered
- Rugged, all 316 SS construction
- -200 to 600°C temperature range
- Custom designs available
- Accessible zero & span

General Description

TMA temperature sensor employs a Pt100 class B resistive temperature detector (RTD) combined with an integrated loop powered 4-20 mA output transmitter. Optional digital indicator, model AUF, plugs directly to the Hirschmann (DIN 43650) plug. This sensor is rugged and all 316 SS construction. Fittings, 1/4" and 1/2" NPT welded to tube, are available for mounting purposes.

An adjustable bore-through compression fitting option is also available. This allows for easy adjustment of desired immersion depth. The unit is factory calibrated to customer temperature requirements. Recalibration via zero and span potentiometers, at the connector, is possible.

Specifications

Temperature Sensor

Operating Temperature: -200 to +600°C (-328°F to +1112°F)

Ambient Operating Temperature Range: -40°C to +70°C (-40°F to +158°F)

Sensing Element: Pt100 Class B per DIN 43670

Max. Pressure: 1450 PSIG

Wetted Parts: 316 SS

Fittings: 1/4", 1/2" NPT standard welded or adjustable

Connector: Hirschmann plug per (DIN 43650)

Electronic Data

Output: 4-20 mA, 2-wire

Supply Voltage: 12-36 VDC

Accuracy: 0.1 % of span

Zero/Span Drift: 0.025%/°F

Protection

Environmental: NEMA 4X/IP65

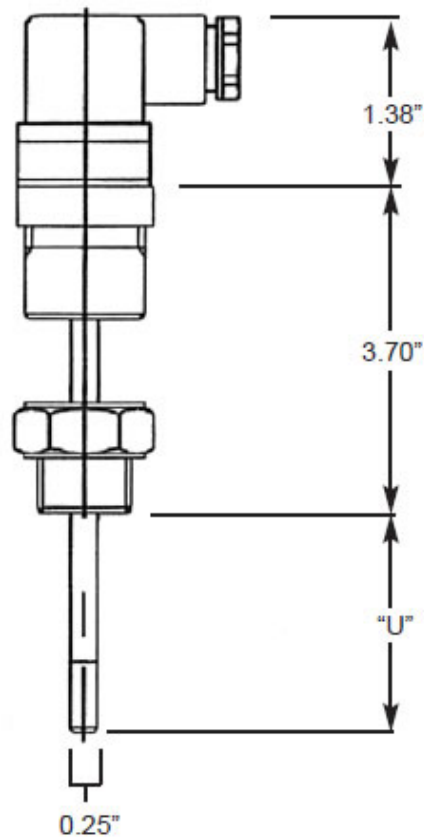
Fault: Reverse polarity protected

Digital Display: See AUF Series

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Ordering Information

Temperature Range	CODE xx
0 to 50°C (32°F/122°F)	05
0 to 100°C (32°F/212°F)	10
0 to 150°C (32°F/302°F)	15
0 to 200°C (32°F/392°F)	20
0 to 400°C (32°F/752°F)	40
0 to 600°C (32°F/1112°F)	60
-50 to 50°C (-58/122°F)	55
-50 to 150°C (-58/302°F)	51
-200 to 400°C (-328/752°F)	24
-200 to 600°C (-328/1112°F)	26
Custom (Specify range)	E



Order Numbers for TMA Sensors

U Dim.	1/4 Welded	1/2 Welded	1/4 Adjustable	1/2 Adjustable
2 1/2"	TMA-S2514F025xx	TMA-S2512F025xx	TMA-S2514A025xx	TMA-S2512A025xx
4 "	TMA-S2514F040xx	TMA-S2512F040xx	TMA-S2514A040xx	TMA-S2512A040xx
6"	TMA-S2514F060xx	TMA-S2512F060xx	TMA-S2514A060xx	TMA-S2512A060xx
9"	TMA-S2514F090xx	TMA-S2512F090xx	TMA-S2514A090xx	TMA-S2512A090xx
12"	TMA-S2514F120xx	TMA-S2512F120xx	TMA-S2514A120xx	TMA-S2512A120xx

Example: TMA-S2514F02505 = 0-50°C Range, 1/4" NPT welded, 2-1/2" insertion