

Z-Temp™ Transmitter

Explosion Proof Transmitter w/ Digital Display

The Z-Temp Transmitter is a more economical alternative to traditional fully featured smart transmitters. It is perfectly suited to applications where an explosion-proof sensor with a digital readout is required, but all of the extra features are not.



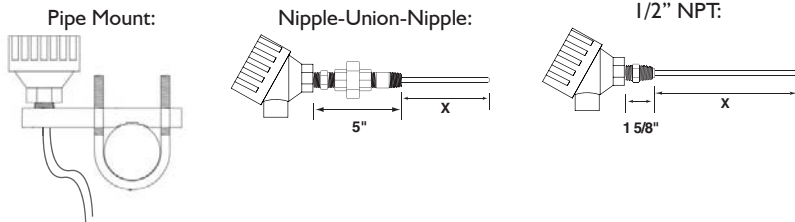
Benefits

- The core functionality of a fully featured smart transmitter at a fraction of the cost.
- Sensor/transmitter can be matched for very high accuracy requirements.
- Quick turnaround (3-5 days)
- High vibration resistance
- Built for heavy-duty, harsh, industrial environments
- Bright red, easy-to-read LED display

Features

- Explosion proof housing
- FM, CSA, ATEX, EExd
- 4-20 mA output
- HART available
- Std temperature range:
RTDs: -60/600°F, ext. range available -328/1100°F
Thermocouples: -328/2282°F
- NIST calibration certificates available
- Available w/custom thermowells

Connections:



Feature	REOTEMP®	Honeywell®	Rosemount®	Yokogawa®
Calendar Van Dusen/ temperature sensor match (highest possible accuracy)	X	X	X	X
HART	X	X	X	X
Input: all industrial curve RTDs, all TCs, resistance	X	X	X	X
Output: 4-20mA	X	X	X	X
Sil II approval	X	X	X	X
FM, CSA, ATEX, EExd	X	X	X	X
Digital display	X	X	X	X
Bold Red Digital Display	X			
Multi-level display (w/ two decimals, bar graph, etc.)		X	X	X
Advanced diagnostic utilities (for rare occasions it's needed)		X	X	X
Hot swap capability		X	X	X
Made in U.S.A.	X			
Available in 3-5 days	X			
Two sensors readings simultaneously			X	X

Distributed by:


Z-Temp™ Transmitter

Explosion Proof Transmitter w/ Digital Display

Technical Data:

Minimum Immersion: 2.5"
Ambient Temperature: -40 to 70°C (-40 to 158°F)
Supply Voltage, DC: 13 to 30V
Voltage Drop: 12VDC
Warm-up Time: 5 min.
Output: 2-wire, 4-20mA
Display: LED, 4-digit, 9.5mm high
Temperature Range: RTDs: -60/600°F, ext. range avail. -328/1100°F. Thermocouples:-328/2282°F
Accuracy: .2% of span (±1 digit), plus sensor accuracy.
Temperature Coefficient: ± 0.02% of span/°C
Sensor Error Detection: Programmable upscale or downscale 23mA or 3.5mA
Supply Voltage Variation Effect: ≤ 0.005% of span/VDC
EMC Immunity Influence: ≤ ± 0.5% of span
Humidity: < 95% RH (non-cond.)

Enclosure: IP66, NEMA 4X, CSA, Explosion proof

CONNECTION HEAD						
Protection Method	Type of Protection	Atex Marking	Permitted Use	Approval Body	EC-type certification No.	Protection Principle
Increased Safety EN 50014 EN 50018 EN 50281-1-1	EEx d IIC	1026  II2GD	Zone 1 Zone 2 Zone 21 Zone 22	FTZU Czech Republic	FTZU 03 ATEX 0074 U	Contain the explosion and quench the flame
Explosion Proof FM 3600 FM 3615 FM 3810	XP	XP/II/A,B,C,D/T6 DIP/II,III/1/E,F,G/T6 Type 4x	Class I, Div 1 Gr. A,B,C,D Class II/III,Div1 Gr. E,F,G NEMA 4X	FM Approvals	3019264	Contain the explosion and quench the flame

Part Numbers & Pricing:

Online:



www.reotemp.com/thermocouple_rtd_configurator.php

(Check pricing, custom sensor assemblies, custom drawings, thermowell assemblies, lead times)

Printed Materials:

For Z-Temp with thermocouple elements, see Thermocouples Tab-Head Assemblies (pg. TC1)

For Z-Temp with RTD elements, see RTD Tab-Head Assemblies (pg. RTD1)