

Pribusin Inc.

Manufacturers of Process
Controls and Instrumentation

Model: TWI-RTX

Two Wire Isolated RTD Transmitter



Standard features:

- High Input to Output Isolation (800 VAC Test)
- Small Size - Fits Standard Explosion Proof Housing
- Industry Standard 4-20 mA Output
- Standard Ranges for 100 Ohm Platinum
- Special Ranges and other RTD Types Available
- Wide Operating Range (12 to 60 VDC)
- High Noise Rejection
- CSA and NRTL Approved (LR 51078)

Function:

The TWI-RTX is an isolated two wire RTD transmitter in a small, easy to install package. It has easily accessible screw terminals and is built in a rugged housing. The many different temperature ranges allow it to be used in a great variety of temperature measurement applications.

Temperature Conversion Equations:

$$^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = \frac{9}{5} ^{\circ}\text{C} + 32$$

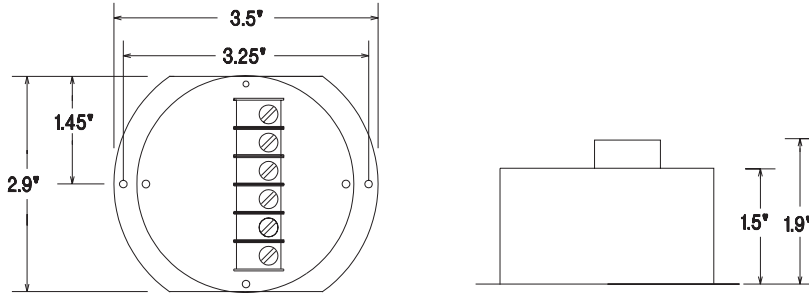
$$\text{Kelvin} = ^{\circ}\text{C} + 273.15 \quad \text{Rankin} = ^{\circ}\text{F} + 459.67$$

Specifications:

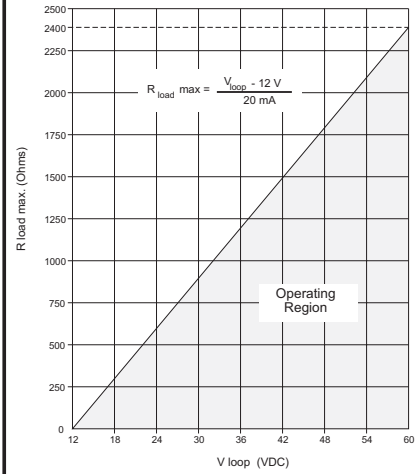
- Output: 4-20 mA
- Isolation: 800 VAC Test
- Operating Power: 12 to 60 VDC
- RTD Type: Platinum, 100 Ohms at 0 Deg.C., 0.0385 Alpha
- Accuracy/Linearity: +/-0.25% max., +/- 0.1% typ (Linearized to RTD Curve).
- Response Time: 100 msec to 63% of final value
400 msec to 99% of final value
- Temperature Effects: +/- 0.025% per Deg.C.
- Span Drift: +/- 0.025% per Deg.C.
- Zero Drift: 1 milliohm per 1 ohm offset per Deg.C. or 1 milliohm per Deg.C. whichever is larger
- Line Effects: 0.03% per 10 VDC Line Change
- Operating Temperature: -20 Deg. C. to + 40 Deg. C.

TWI-RTX

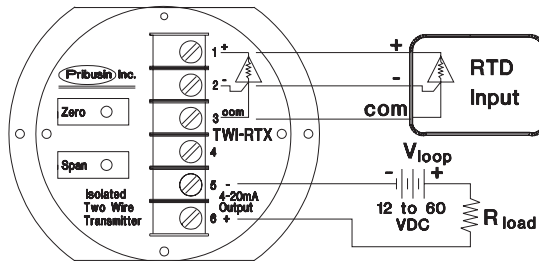
Dimensions:



Loop Characteristics:



Connection:



Model Designation:

TWI-RTX

Temperature Range

- 1: 0 to 300F (-18 to 150C)
- 2: 0 to 400F (-18 to 205C)
- 3: 0 to 500F (-18 to 260C)
- 4: 0 to 750F (-18 to 400C)
- 5: 0 to 1000F (-18 to 538C)
- 6: -350 to 1100F (-200 to 600C)
- 7: Special (must specify on order)

Example: Isolated RTD Transmitter for 100 Ohm Platinum RTD for 0-500 Deg.F. is designated by:TWI-RT3

Manufactured By:

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