



TEL-TRU MANUFACTURING COMPANY RTD TEMPERATURE PROBE/ TRANSMITTER ASSEMBLIES

Industrial and Sanitary



Tel-Tru RTD probe assemblies are designed for precision temperature measurement in demanding industrial or sanitary environments. RTDs are configurable with many options to meet the needs of dairy, beverage, food, pharmaceutical and chemical processing applications.

www.teltru.com

Temperature + Pressure

Since
1916





Industrial RTD Assemblies

Tel-Tru RTD assemblies are highly configurable to fit your needs and deliver outstanding reliability. Standard assemblies include a proven thin film PT100 platinum RTD sensing element, packaged in a welded 316L stainless steel probe. Assemblies include threaded process connections and may be used with a thermowell, which can be purchased separately.

► FEATURES:

- Models configured to your exact needs with various termination and transmitter selection including;
 - No connection head
 - Standard connection head with or without transmitter
 - Built in compact transmitter with 4-20mA output
 - Wide range of stem lengths
- High accuracy sensor with long term stability
- Fast response time
- Durable all welded construction
- Can be used for direct immersion with the connection head isolating the connections from the environment

► APPLICATIONS

- Industrial process controls
- Temperature controlled food storage systems
- Cold Chain
- HVAC equipment

► GENERAL SPECIFICATIONS

Sensor: Thin film Pt 100 RTD, TCR .00385, Class A+/- .06% at 0°C, Conforms to IEC 751

Transmitter output:

- Connection head: 4 to 20 mA, HART
- Built-in Compact Transmitter: 4 to 20 mA

Probe lengths: From 1.25" to 18"

Probe diameters: .187" or .250"

Termination:

- Unterminated (bare wire)
- Connection heads
 - Cast aluminum NEMA 4
 - 316 stainless steel NEMA 4
 - FDA approved polypropylene
- M12 connector (Built-in Compact Transmitter)

► DETAILED SPECIFICATION SHEETS

- [Industrial RTD Probe Assemblies](#)
- [Industrial RTD Probe Assemblies with Built In Transmitter](#)

Sanitary RTD Assemblies

Tel-Tru Sanitary RTD assemblies are configured specifically for your demanding applications. A proven thin film PT100 platinum RTD sensing element delivers reliable accuracy, packaged in a welded 316L stainless steel probe. Configurations feature Tri-Clover® fittings in six standard sizes and surface finishes that comply with 3A Standard Number 74-07 for food, dairy, beverage, pharmaceutical and chemical processing applications.



► FEATURES:

- 3A Standard Number 74-07 for food, dairy, beverage, pharmaceutical and chemical processing applications.
- High-gloss polished finish to 2 μ in. available
- Compatible with Clean-In-Place (CIP) processes
- Various size Tri-Clamp fittings available
- Models configured to your exact needs with various termination and transmitter selections
 - No connection head
 - Standard connection head with or without transmitter
 - Built in compact transmitter with 4-20mA output
 - Low Profile model for space constrained installations
 - Wide range of stem lengths
- High accuracy sensor with long term stability
- Durable all welded construction
- Can be used for direct immersion with the connection head isolating the connections from the environment

► APPLICATIONS

- Food and beverage processing
- Pharmaceutical

► GENERAL SPECIFICATIONS

Sensor: Thin film Pt 100 RTD, TCR .00385, Class A +/- .06% at 0°C, Conforms to IEC 751

Transmitter output:

- Connection head: 4 to 20 mA, HART
- Built-in Compact Transmitter: 4 to 20 mA

Probe lengths: From 1.25" to 18"

Probe diameters: .187" or .250"

Termination:

- Unterminated (bare wire)
- Connection heads
 - Cast aluminum NEMA 4
 - 316 stainless steel NEMA 4
 - FDA approved polypropylene NEMA 4
- M12 connector (Built-in Compact Transmitter)

► DETAILED SPECIFICATION SHEETS

- [Sanitary RTD Probe Assemblies](#)
- [Sanitary RTD Probe Assemblies with Built In Transmitter](#)



**ADDITIONAL PRODUCTS
AVAILABLE FROM TEL-TRU**

Bimetal Thermometers

Sanitary Bimetal Thermometers

Temperature Transmitters

Digi-Tel™ Thermometers

Gas Actuated Thermometers

Thermowells

Infrared Thermometers

Surface Thermometers

Pressure Transmitters

Pressure Gauges

HVAC Instruments

Check-Set® Thermometer
Calibrators

**Transmitter
Specifications**

Specifications for the RTD transmitters can be found online at www.teltru.com/t-rtd_trans.aspx

Tel-Tru Product Warranty

Please see our limited product warranty at www.teltru.com/t-warranty.aspx



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