



*We're There.*



## RTDs & THERMOCOUPLES

## Winters RTDs and Thermocouples

RTDs and Thermocouples are electronic temperature sensors capable of measuring temperatures from -328°F to 3,272°F (200°C to 1,800°C). Combined with their high accuracy and durability, it enables them to be used in a variety of industrial applications. Multiple options such as different materials, enclosure ratings and more are available to fit your application.

### TER Industrial RTD

- High accuracy Platinum element (Pt100)
- Light weight aluminum connection enclosure
- 2 wire 4-20mA output signal standard
- 316 SS sheath material
- IP54 or ATEX rated enclosure available
- 5 year warranty

### TET Industrial Thermocouple

- Type J & K thermocouple sensors offering a wide temperature range; other types available upon request
- Light weight aluminum connection enclosure
- Terminal connections standard
- 316 SS sheath material
- IP54 or ATEX rated enclosure available
- Available with or without 316 SS thermowells
- 5 year warranty

### WinSMART™ TY52 Temperature Transmitter

- High accuracy platinum PT100 element
- Heavy duty die-cast aluminum housing
- All stainless steel wetted parts
- Hazardous area rated
- 5 year warranty

### Applications

- Refineries, petrochemical plants, gas-to-liquid (GTL) processes, storage tanks, low density polyethylene processes, power plants, paper production plants, kilns, food & beverage, etc

### Accessories & Options

- **Connection Head**
  - Aluminum
  - Stainless Steel
- **Thermowell**
  - Flanged
  - Threaded
  - Sanitary
  - And others
- **With or Without Terminal Block (leads)**
- **Transmitter**
  - 4/20 mA
  - 1/5 VDC
  - Modbus R8485
  - HART®



## Multi-point

Multi-point temperature sensors are industrial devices that measure temperatures at different points along the length of the sensor. Winters provides a range of these sensors ranging from single probe tubular devices housing a number of profiling points, right up to heavy duty thermowell designs with guide tubes, allowing sensor removal without shutting down the reactor or vessel. Winters' Multi-point sensors are frequently used in chemical, petrochemical and refining industries, providing an excellent temperature measurement solution for chemical reactors, catalytic crackers and fractionation towers.



## High Pressure

Winters high pressure thermocouples are manufactured using vacuum brazing techniques. This process maintains quality and consistency, as vacuum brazing is a completely automated and controlled technique, this eliminates human errors during the soldering process. Offered in thread-in type or in-line flow through ring design, these sensors can be used in applications up to 100,000 PSI, such as Low Density PolyEthylene (LDPE) processes.

## Tube Skin

Tube skin thermocouples accurately measure surface temperature in fired process furnaces and boilers. The sensor comes with a protection pad (weld pad) at the tip of the thermocouple. The protection pad is designed to minimise disruption and damage to the device, caused by flame impingement and radiant heat. There are a number of applications for tube skin thermocouples. Each process requires sensors that are purposely designed and matched with the furnace or boiler.



## Additional Services

- Calibration Certificates, individual and batch
- Hydrostatic Pressure Tests
- Wave Frequency Calculation
- And others

# WINTERS INSTRUMENTS

MANUFACTURER OF INDUSTRIAL INSTRUMENTATION



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