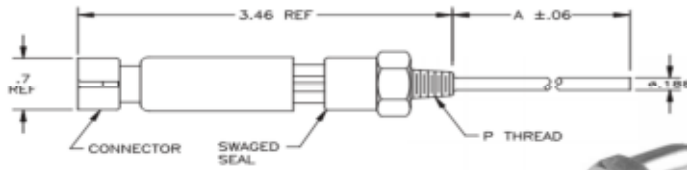


Integrated Sensor/Transmitter



Overview

The TT363 is an integrated platinum RTD temperature sensor with 4-20mA current loop output. Combines transmitter capability with a platinum sensing element in a single package for an easier-to-install temperature sensing solution.

- Power and signal are provided through a 4-20mA current loop connection.
- Sensor measuring and operating range is from -50 to 300°F (-45.5 to 148.9°C).
- The high-temperature plastic case and electronics can be used in applications with an ambient temperature up to 185°F (85°C).
- Connection is made using an industry-standard Packard/Delphi: Metri-pack 150 connector.

Specifications

Output: 4-20mA over range specified, linear with temperature.

Sensor Operating Temperature: -50 to 300°F (-45.5 to 148.9°C)

Ambient Temperature:

Operation: -40 to 185°F (-40 to 85°C), non-condensing
Storage: -67 to 212°F (-55 to 100°C), non-condensing

Supply Voltage: 7.6 to 35VDC, reverse polarity protected

Loop resistance: Maximum allowable resistance of the signal-carrying loop, including wires and load resistors given by: $R_{loopmax} = (V_{supply} - 7.6) / .02Amps$

Warmup drift: Less than +/-0.025mA; stable within 30 minutes

Ambient temperature error: Less than +/-0.15mA

Voltage Stability: Change in loop current < ±.01 mA from 7.6 to 35 VDC

Sensor Housing: Stainless steel sensor case with a choice of NPT threads; transmitter body is nylon with 30% glass plastic encapsulation; end connector (Packard/Delphi: Metri-pack 150)