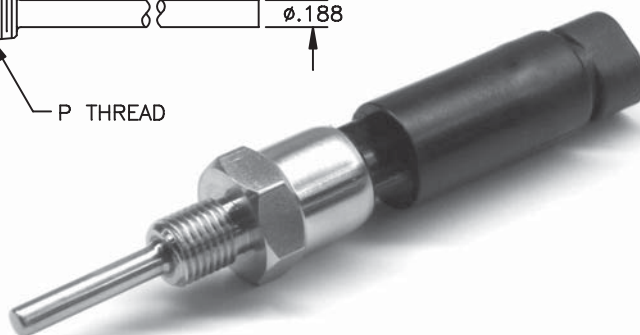
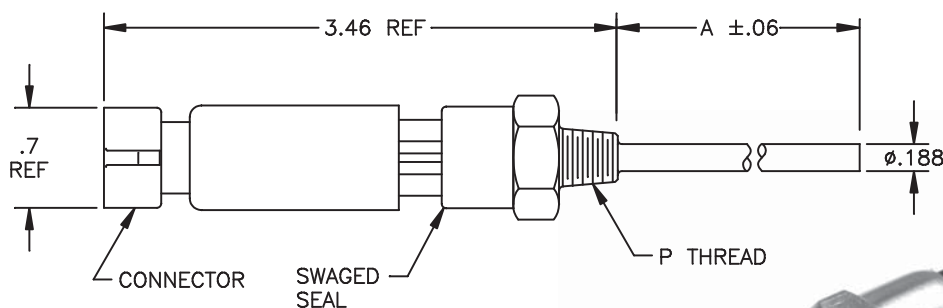


# Integrated Sensor/Transmitter



## 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  $< \pm 0.01$  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)

## Specification and order options

TT363	Model number: TT363 Temperature Sensor/Transmitter
AN	Range Code: Temperature range code [AN = -17.8 to 148.9°C(0 to 300°F)]
20	Case Length: 10 = 1.0" 20 = 2.0" 30 = 3.0" 40 = 4.0"
P2	Thread size: P2 = 1/8 -27 NPT P4 = 1/4 -18 NPT P6 = 3/8 -18 NPT P8 = 1/2 -14 NPT
S	Case Material: S = Stainless Steel
TT363AN20P2S = Sample Part Number	

Contact Minco to learn more about custom design options for your application.

## TT363 Mating Cable Assembly

- 72" Shielded cable
- 2-conductor, AWG #18, copper braid shield with drain wire
- Terminated with a female Metri-pack 150 connector

## Specification and order options:

### TT363 Mating Cable Assembly

AC203350	Model Number: AC203350
L72	72" lead length
AC203350L72 = Sample Part Number	

Specifications subject to change