

# 100 Ohm RTD Temperature Probe

## TP750 Datasheet



The TP750 probe is manufactured using a coil suspension element design for increased shock and vibration resistance.

### Notice to EU customers

This product is not updated to comply with the RoHS 2 Directive 2011/65/EU and will not be shipped to the EU. Customers may be able to purchase products from inventory that were placed on the EU market prior to July 22, 2017 until supplies are depleted. Tektronix is committed to helping you with your solution needs. Please contact your local sales representative for further assistance or to determine if alternative product(s) are available. Tektronix will continue service to the end of worldwide support life.

### Features and benefits

- -200 °C to 300 °C temperature range
- Nominal 100 Ω resistance

### 100 Ohm RTD temperature probe

The TP750 probe is manufactured using a coil suspension element design for increased shock and vibration resistance. The mineral-insulated sheath provides a minimum bend radius of 19 mm for flexibility and durability. The TP750 temperature probe is compatible with the DMM4050 digital multimeter.

## Specifications

All specifications are guaranteed unless noted otherwise.

### TP750 specifications

Resistance	Nominal 100 Ω
Temperature coefficient	0.00385 Ω/Ω °C nominal
Temperature range	-200 °C to 300 °C (transition and cable temperature: 0 °C to 150 °C)
Drift rate	+0.13 °C at 0 °C after 1000 hours at 300 °C
Sheath material	316 stainless steel
Leads	Teflon™-insulated, nickel-plated stranded copper, 22 AWG
Termination	4-wire banana
Time constant	Four seconds maximum for 63.2% response to step change in water moving at 3 fps
Bending radius	19 mm (3/4 in.) except for 50 mm (2 in.) area of sheath near tip

**TP750 specifications**

<b>Calibration</b>	Includes manufacturer's NIST-traceable calibration and table with R vs. T values in 1 °C increments from -196 °C to 300 °C. Callendar – van Dusen coefficients included
<b>Immersion</b>	At least 100 mm (4 in.) recommended
<b>Accuracy (includes calibration uncertainty and short-term stability)</b>	±0.050 °C at -196 °C ±0.050 °C at 0 °C ±0.051 °C at 200 °C ±0.055 °C at 300 °C
<b>Size</b>	9 in. L × 3/16 in. diameter

**Ordering information**

**TP750**

100 Ohm RTD Temperature Probe



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

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