



Home > Products > Packaged Temperature Probes > 500 > Product Page

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- Technical Assistance
- White Papers
- Literature Request
- Test and Measurement Catalog
- RoHS Product List
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590-51AF09-103



500 Series immersion temperature probe

Actual product appearance may vary.

Features

Wide selection of housing options
 Choice of custom or existing designs
 Operating temperature range design available from -60 °C to 300 °C [-76 °F to 572 °F]

Potential Applications

Automotive
 White goods
 Communications
 Medical
 Fire detection
 Computers
 Instrumentation test equipment
 Microwave oven probes
 Bulk freight refrigeration
 Digital thermometers
 Drinking and vending machines
 Military
 Aerospace

Description

The 500 Series Probes represents a full range of thermistor and RTD based temperature sensors. These assemblies have been designed for use in specific applications. Housings may accommodate air/gas, immersion or surface sensing requirements. Housing material ranges from all plastic to all metal. In addition to custom configurations, the customer may also choose from a variety of existing designs.

Supporting Documentation

- ▣ [Engineering Drawing](#)

Product Specifications	
Thermistor Type	NTC
Temperature Sensing Type	Immersion
Nominal Resistance at 25 °C [77 °F]	10,000 Ohm
Tolerance	± 1.0%
Accuracy	0 °C to 70 °C [32 °F to 158 °F]
R - T Curve	16
Operating Temperature Range	-60 °C to 125 °C [-76 °F to 257 °F]
Housing Material	Epoxy filled
Mechanical Interface	None
Electrical Interface	Lead wires with connector(s)
Lead Material	28 Gauge Teflon insulation
Lead Length	178 mm [7 in]
Connector Type	AMP 640443 -2
Time Constant in Water at 0.914 m/s [3 ft/s]	10.0 s
Dissipation Constant in Water at 0.914 m/s [3 ft/s]	5 mW/°C
Availability	Global
Series Name	500

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