



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

### Order Product and Get Support

- U.S. Authorized Distributors
- Global Sales & Service
- N. American Sales Reps
- Distributor Inventory
- Technical Assistance
- White Papers
- Literature Request
- Test and Measurement Catalog
- RoHS Product List
- Customer Feedback

### 590-51AF05-103



Actual product appearance may vary.

#### 500 Series immersion temperature probe

#### 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

None Available

Product Specifications	
Thermistor Type	NTC
Temperature Sensing Type	Immersion
Nominal Resistance at 25 °C [77 °F]	10,000 Ohm
Tolerance	± 0.2 °C [0.36 °F]
Accuracy	0 °C to 100 °C [32 °F to 212 °F]
R- T Curve	16
Operating Temperature Range	-60 °C to 90 °C [ -76 °F to 194 °F]
Housing Material	Epoxy filled
Mechanical Interface	None
Electrical Interface	Two flying leads
Lead Material	28 Gauge Teflon insulation
Lead Length	305 mm [12 in]
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

#### My Links

[Login to iCOM](#)  
[Login as Rep/AD](#)  
[Login as Guest](#)  
[Login to Digital University](#)

#### Keyword Search

Search for product and support information.

All Sensing and Control

#### Product Search

Part number search:

Use (\*) to expand search

Specification Search