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### 590-59AR18-103



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	± 0.5 °C [0.9 °F]
Accuracy	0 °C to 70 °C [32 °F to 158 °F]
R - T Curve	16
Operating Temperature Range	- 60 °C to 150 °C [ - 76 °F to 302 °F]
Housing Material	Stainless steel
Mechanical Interface	None
Electrical Interface	Two flying leads
Lead Material	24 Gauge Teflon insulation
Lead Length	1219 mm [48 in]
Connector Type	Molex 19003 - 0064
Time Constant in Water at 0.914 m/s [3 ft/s]	6.0 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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All Sensing and Control

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