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### 526-59AR04-104



**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]	100,000 Ohm
Tolerance	± 1.0 °C [1.8 °F]
Accuracy	105 °C to 165 °C [221 °F to 329 °F]
R-T Curve	14
Operating Temperature Range	-60 °C to 121 °C [ -76 °F to 250 °F]
Housing Material	Stainless steel
Mechanical Interface	None
Electrical Interface	Two flying leads
Lead Material	28 Gauge Teflon insulation
Lead Length	610 mm [24 in]
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]	5,7 mW/°C
Availability	Global
Series Name	500

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All Sensing and Control

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