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535-53DA02-303



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 RTDbased 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]	30,000 Ohm
Tolerance	± 0.2 °C [0.36 °F]
Accuracy	25 °C [77 °F]
R- T Curve	16
Operating Temperature Range	- 40 °C to 125 °C [- 40 °F to 257 °F]
Housing Material	Brass
Mechanical Interface	9/16 18 UNF - 2B thread
Electrical Interface	Two flying leads
Lead Material	20 Gauge SE J1128 Type TXL
Lead Length	102 mm [4 in]
Time Constant in Water at 0.914 m/s [3 ft/s]	15.0 s
Dissipation Constant in Water at 0.914 m/s [3 ft/s]	6 mW/°C
Availability	Global
Series Name	500

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