

Honeywell Sensing and Control

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

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- N. American Sales Reps
- Distributor Inventory
- Technical Assistance
- White Papers
- Literature Request
- Test and Measurement Catalog
- RoHS Product List
- Customer Feedback

535-53DA02-303



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 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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Product Search

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