Honeywell

Honeywell Sensing and Control

590-59AD02-104

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]	100,000 Ohm
Tolerance	± 0.5 °C [0.9 °F]
Accuracy	0 °C to 70 °C [32 °F to 158 °F]
R-T Curve	1
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	28 Gauge Teflon insulation
Lead Length	305 mm [12 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