Honeywell

Honeywell Sensing and Control

Search

narrow your search

Products
- Controls Monitoring and Lighting (353)
- Machine Safety (1726)
- Sensors (7015)
- Switches (9585)

Technology
- Control and Instrumentation (1051)
- Electromechanical (9146)
- Magnetic (505)
- Microstructure (2298)
- Thick Film (1764)
- More...

Need Help?
Click here to contact us

# 535-32AA33-103 Packaged Temperature Probes

(Home: Products)

*Actual product appearance may vary.*

**500 Series surface temperature probe, NTC, 10,000 Ohm, ±5.0% tolerance, 25 °C [77 °F] accuracy, tin-plated copper, ring tongue (#10), flying leads (two), 22 gauge Teflon insulation, 305 mm [12 in]**

Sales & Service | Distributor Inventory

Overview | Specs | Documentation | Application Notes

Description

The 500 Series is broad portfolio of air/gas, liquid and surface temperature probes that use Honeywell's NTC (Negative Temperature Coefficient) thermistors. Thermistors can be very effective in sensing temperatures of gases, liquids or solids because of their enhanced sensitivity. These small, easy to install probe assemblies support and position the thermistor elements within the media to be monitored as well as protect the thermistors against damage in use or handling. The assemblies also help direct thermal or fluid flow evenly across the thermistors for accurate temperature sensing. The enhanced reliability, precision and stability of the 500 Series products allow the customer greater flexibility in temperature monitoring and control. The wide operating temperature range is60 °C to 300 °C [-76 °F to 572 °F] provides application flexibility. The 500 Series is available in a wide variety of housing styles and materials, R-T (Resistance-Temperature) curves, mounting methods, mechanical interface, electrical interface and connector types to meet most applications. In addition to custom configurations, a variety of existing designs is available. Honeywell also offers RTD (Resistance Temperature Detector) technology that may be packaged into probe assemblies for similar applications that may require an RTD linear output instead of an NTC thermistor output.

## Features

Features
- Choice of custom or existing designs
- Air/gas, surface, immersion and liquid level
- NTC type output
- Enhanced sensitivity
- Small package size
- Easy to install
- Enhanced reliability
- Enhanced accuracy
- Enhanced stability/low drift
- Wide operating temperature range
- Wide variety of probe assembly styles
- Custom configurations available
- RTD linear output available

## Potential Applications

Potential Applications
- Industrial: HVAC, refrigeration, office automation, air compressors, industrial ovens and ranges, hydraulic systems, processing and packaging, power generation
- Transportation: heavy duty or sport vehicle engine oil, air inlet, fuel, coolant or surface temperature sensing
- Aviation: engine bleed air or environmental control systems
- Weather stations