



PROBE ONLY

Stainless Steel Probe, Nickel RTD



The ACI Nickel Probe Only Series features a 1/4" diameter stainless steel probe with two, 14" or 24 inch 22 AWG Etched Teflon colored lead wires to differentiate the different sensor types. The sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture on the sensors and to increase the thermal response time using our high quality, thermally conductive epoxy. The probe is designed to be used in either duct and immersion applications when used with the proper length thermowell. Optional lead lengths, cable types and NIST Certificates are available as referenced in the ordering grid on the Product Data Sheet. Please contact ACI for more information regarding this sensor or to discuss your application in further detail. Other options that may be available upon request.

Applications: Roof Top Units, Air Handlers, Supply/Discharge Air/Return/Mixed/Exhaust Air Duct Temperature Sensing, Immersion Temperature Sensors, Replacement Temperature Sensors.

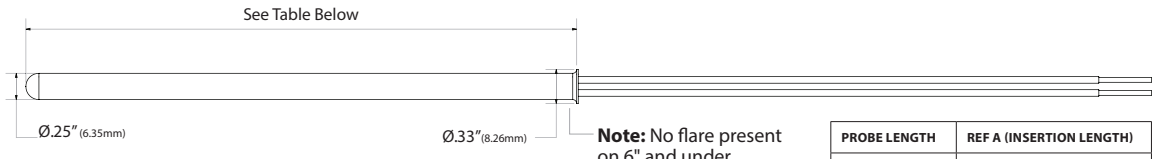
The ACI Nickel RTD Probe Only Series is covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, workaci.com.

PRODUCT SPECIFICATIONS

Sensor Type Sensor Curve:	Nickel RTD PTC (Positive Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Two (Non-Polarity Sensitive)
Sensor Output @ 25°C (77°F) (Standard Lead Wire Colors):	1000 Ohms nominal (Red/Red)
Sensor Accuracy:	-40°C (-40°F): +/- 1.52°C (+/- 2.73°F) 0°C (-40°F): +/- 0.4°C (+/- 0.72°F) 21.1°C (70°F): +/- 0.17°C (+/- 0.34°F) 54.4°C (130°F): +/- 0.56°C (+/- 1.00°F) 121°C (250°F): +/- 1.25°C (+/- 2.25°F)
Din Standard Temperature Coefficient (0-100°C):	Din 43760 6370 ppm/°C
Sensor Stability:	+/- 0.05% after 1000 Hours @ 150°C (302°F)
Response Time (63% Step Change):	8 Seconds nominal
Power Dissipation Constant:	0.3°C/mW (Still Air) 5 mA
Operating Temperature Range:	-40 to 121°C (-40 to 250°F)
Storage Temperature Range:	-40 to 85°C (-40 to 185°F)
Operating Humidity Range:	10 to 95% RH, non-condensing
Probe Material:	304 Stainless Steel
Standard Wire	Lead Wire Insulation Wire Rating: Etched Teflon (PTFE) Colored Leads MIL-W-16878/4 (Type E)
	Temperature Rating: -55°C (-67°F) to 200°C (392°F)
	Conductor Material: Silver Plated Copper
	Rated Application: Suitable for Indoor and Outdoor (wet) location. Oil, Moisture, Acids, Oils and Moisture Resistant
	Lead Length Conductor Size: 4", 6" and 8" Probes: 14" (35.6 cm) 12" and 18" Probes: 24" (61cm) 22 AWG (0.65mm)
Plenum Wire	Lead Wire Insulation Wire Rating: CL2P: FEP (Fluorinated Ethylene Propylene) TYPE CL2P - TYPE CMP 22 AWG (UL), C(UL) FEP/FEP E130356 ROHS
	Temperature Rating: CL2P: -80°C (-112°F) to 150°C (302°F)
	Conductor Material: CL2P: Tinned Copper
	Rated Application: CL2P: Suitable for Indoor and Outdoor (wet) locations. Oil, Gas, Sunlight, Abrasion Acid Resistant
Product Dimensions Probe Diameter:	See table on back of product data sheet 0.250" (6.35mm)
Product Weight:	4" = 0.028 lbs. (12.7g) 6" = 0.036 lbs. (16.3g) 8" = 0.044 lbs. (20g) 12" = 0.066 lbs. (29.9g) 18" = 0.09 lbs. (40.8g)
Agency Approvals:	CE, RoHS2, WEEE



DIMENSIONAL DRAWING



PROBE LENGTH	REF A (INSERTION LENGTH)
2"	2.00" ± 0.13"
4"	4.00" ± 0.13"
6"	6.00" ± 0.13"
8"	8.00" ± 0.13"
12"	12.00" ± 0.25"
18"	18.00" ± 0.25"

Standard View

CUSTOM ORDERING

Model # Example: **A/** | **1K-NI** | **PO** | **4"** | **6'CL2P** | **NIST**
A. B. C. D. E. F.

MODEL #

A. Sensor Series¹ No Selection Required	A/ _____ ▶	A/
B. Model Series Select One (1)	1K-NI _____ ▶	1K-NI
C. Configuration Select One (1)	PO = Probe Only _____ ▶	PO
D. Probe Length Select One (1)	2" = 2" Probe 4" = 4" Probe 6" = 6" Probe 8" = 8" Probe 12" = 12" Probe 18" = 18" Probe	
E. Lead Wire Options Select One (1)	---- = Standard 14 or 24" Etched PTFE Colored Leads 6'CL2P = 6 ft (1.83m), 2 Conductor Plenum Rated Cable 10'CL2P = 10 ft (3.05m), 2 Conductor Plenum Rated Cable 20'CL2P = 20 ft (6.10m), 2 Conductor Plenum Rated Cable	
F. NIST Select One (1)	---- = No NIST Certificate NIST = NIST Certificate (3 Points)	

ACCESSORIES ORDERING

Model # Example: **NSG HEAT TRANSFER PASTE 20Z** -OR- **102595**

Model #	Item #	Description
NSG HEAT TRANSFER PASTE 20Z	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)
NSG HEAT TRANSFER PASTE 16OZ	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)

