TEMPERATURE | NICKEL RTDS | DUCT WITHOUT BOX



DUCT WITHOUT BOX

Flange Mounted Duct Sensor, Nickel RTD

The ACI Nickel Duct without Box series features a 1/4" diameter stainless steel probe with etched teflon lead wires. The sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture upon the sensors as well as $increased\ thermal\ response\ times\ using\ our\ high\ quality, thermally\ conductive\ epoxy.\ The\ duct$ style sensor is a single point sensor designed to be used in smaller duct applications and includes an insulation pad for properly sealing your duct as well as to dampen vibration. For best results, the sensor length should be determined by the actual width or diameter of your duct such that the tip of the probe is in the approximate center of the duct. On larger ducts, you may want to refer to our Rigid or Bendable Copper Averaging sensor for increased sensing

points and better temperature control. This series can be ordered with optional plenum rated cable in standard lead lengths.

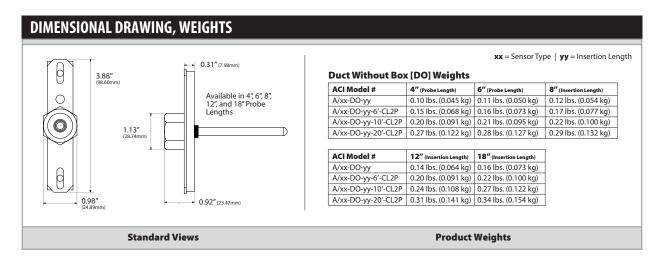
Applications: Roof Top Units, Air Handlers, Monitoring Supply/Discharge/Return/Mixed Air Temperatures

ACI's Nickel Duct Without Box 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, www.workaci.com.

Sensor Type Sensor Curve:	Nickel RTD PTC (Positive Temperature Coefficient)	
Number Sensing Points:	One	
Number Wires:	Two (Non-Polarity Sensitive)	
Sensor Output @ 21.1°C (70°F) Lead Wire Colors:	1000 Ohms nominal Red/Red	
Sensor Accuracy:	-40°C (-40°F): +/- 1.52°C (+/- 2.73°F)	
	0°C (32°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	
Operating Temperature Range:	-40 to 115°C (-40 to 239°F)	
Storage Temperature Range:	-40 to 85°C (-40 to 185°F)	
Operating Humidity Range:	10 to 95% RH, non-condensing	
Probe Material Flange Material:	304 Stainless Steel Galvanized Steel	
Fitting Material Flammability Rating:	Polyamide 66 (High Performance Nylon) UL94-HB	
Foam Pad Material Flammability Rating:	Neoprene/EPDM/SBR Polymer UL94-HBF; FMVSS-302; MIL-R-6130C	
Lead Length Conductor Size:	4", 6" & 8" Probes: 14" (35.6 cm) 12" & 18" Probes: 24" (61cm) 22 AWG (0.65mm)	
Lead Wire Insulation Wire Rating:	Etched Teflon (PTFE) Colored Leads MIL-W-16878/4 (Type E)	
Conductor Material:	Silver Plated Copper	
Probe Diameter:	0.250" (6.35mm)	
Product Dimensions Product Weight:	See table on back of Product Data sheet	
Agency Approvals:	CE, RoHS2, WEEE	



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STANDARD ORDERING Model # Example: A/1K-NI-DO-4* -OR-		
Model #	Item #	Description
A/1K-NI-DO-4"	120510	1K Nickel, Duct 4" without Box, Flange Only, 14" Leads
A/1K-NI-DO-6"	133239	1K Nickel, Duct 6" without Box, Flange Only, 14" Leads
A/1K-NI-DO-8"	120512	1K Nickel, Duct 8" without Box, Flange Only, 14" Leads
A/1K-NI-DO-12"	120507	1K Nickel, Duct 12" without Box, Flange Only, 24" Leads
A/1K-NI-DO-18"	120508	1K Nickel, Duct 18" without Box, Flange Only, 24" Leads

CUSTOM ORDERING	Model # Example: A/ 1K-NI DO 6" 6"CL2P NIST A. B. C. D. E. F.	MODEL#
A. Sensor Series No Selection Required	A/	A/
B. Model Series No Selection Required	1K-NI —	1K-NI
C. Configuration No Selection Required	DO = Duct without Box (Mounting Flange Only)	DO
D. Probe Length Select One (1)	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)	