





FREEZER

Remote Freezer, Thermistor

The ACI Thermistor Freezer Series features a 3/16" diameter stainless steel probe with a 30 Foot, 3 Conductor, 24 AWG Jacketed Teflon Cable. The sensors in this series are manufactured using ACI's proven encapsulation process to eliminate the effects of moisture upon the sensors. The probe is designed to be used in a Refrigerated, Freezer or Hydronic applications where a remote sensor must be used. An optional NEMA 4X rated weatherproof enclosure and NIST Certificate is available as referenced in the ordering grid on the back of the product data sheet

Applications: Pharmaceutical, Refrigerators, Freezers, Hydronic Heating, Remote Sensor **Applications**

The ACI Thermistor Freezer 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 web site, workaci.com.

PRODUCT SPECIFICATIONS	
Sensor Type Sensor Curve	Thermistor Non-Linear, NTC (Negative Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Three Conductors (White and Two Red Wires); Polarity Sensitive (Tie Red wires together)
Sensor Output @ 25°C (77°F):	A/CP (Type II): 10KΩ nominal A/AN (Type III): 10KΩ nominal
Accuracy -25 to 70°C(-13 to 158°F):	+/- 0.5°C (+/-0.9°F)
Stability:	Sensor Dependent; Contact ACI for more information on specific sensor
Power Dissipation Constant:	A/CP-Series & A/AN Series: 2 mW/°C
Sensor Operating Temperature Range:	-40 to 125°C (-40 to 257°F)
Enclosure Operating Temperature Range:	-40 to 70°C (-40 to 158°F)
Storage Temperature Range:	-40 to 80°C (-40 to 176°F)
Operating Humidity Range:	10 to 95% RH, non-condensing
Enclosure Material Flammability Rating:	Polystyrene UL94-V2
Enclosure Ratings:	NEMA 4X (IP 66)
Cable Gland (Fitting) Size Hole Size:	PG7 15 mm (0.591")
Cable Gland Material Sleeve Material:	Polyamide 6 Neoprene
Cable Gland Wire Clamping Size IP Rating:	0.098" (2.5 mm) to 0.256" (6.5 mm) IP 68 (NEMA 6P)
Cable Gland Torque Rating:	2.5 Nm (22.127 lb. inch)
Probe Material:	316 Stainless Steel
Probe Length Probe Diameter:	2" (50.8 mm) 0.1875" (4.76 mm)
Lead Length Cable Diameter:	30′ (9.15 m) 0.106″ nominal (2.69 mm)
Conductor Size Conductor Material:	24 AWG (0.51 mm) Silver Plated Copper
Lead Wire Insulation Jacket Color:	FEP/FEP (Teflon) Jacketed Cable White
Product Weight:	A/xxK-FRZ2"-30': 0.36 lbs. (0.163 kg) A/xxK-FRZ2"-4X-30': 0.60 lbs. (0.272 kg)
Agency Approvals:	CE, UKCA, WEEE, RoHS2



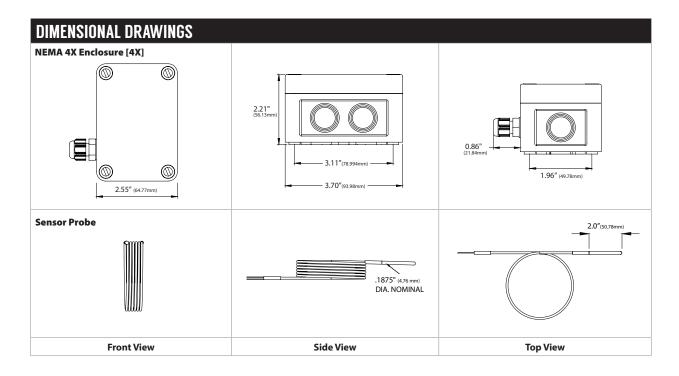












STANDARD ORDERING		Model # Example: A/1.8K-FRZ2"-30' -OR- 125164
Model #	Item #	Description
A/AN-FRZ2"-30'	121305	AN Freezer Sensor, 30' Leads, 2" Probe
A/CP-FRZ2"-30'	125285	CP Freezer Sensor, 30' Leads, 2" Probe
A/AN-FRZ2"-4X-30'	134410	AN Freezer Sensor, 30' Leads, 2" Probe, 4X Enclosure
A/CP-FRZ2"-4X-30'	125094	CP Freezer Sensor, 30' Leads, 2" Probe, 4X Enclosure

OPTIONAL SENSOR ORDERING Model # Example: A/ 1.8K FRZ2" 4X 30' NIST A. B. C. D. E. T.		MODEL #
A. Sensor Series No Selection Required	A/ —	A/
B. Model Series Select One (1)	AN CP	
C. Configuration No Selection Required	FRZ2" = Freezer Sensor	FRZ2"
D. Enclosure Select One (1)	= No Enclosure 4X = NEMA 4X Weather Proof Plastic Enclosure	
E. Lead Length No Selection Required	30' = 30 Feet (9.15m)	30'
F. NIST Select One (1)	= No NIST Certificate NIST = NIST Certificate (3 Points)	

ACCESSORIES ORDERI	NG	Model # Example: A/TB-2.0-GLA -OR- 147220
Model #	Item#	Description
A/TB-2.0-GLA	147220	Thermal Buffer, 2 oz Nalgene Bottle, 1 Sensing Point, Mounting Bracket, Glass Beads
A/TB-2.0-GLY	147221	Thermal Buffer, 2 oz Nalgene Bottle, 1 Sensing Point, Mounting Bracket, Food Grade Glycol
A/TB-8.5-1-GLA	147223	Thermal Buffer, 8.5 oz Nalgene Bottle, 1 Sensing Point, Mounting Bracket, Glass Beads
A/TB-8.5-1-GLY	147225	Thermal Buffer, 8.5 oz Nalgene Bottle, 1 Sensing Point, Mounting Bracket, Food Grade Glycol
A/TB-8.5-3-GLA	147227	Thermal Buffer, 8.5 oz Nalgene Bottle, 3 Sensing Points, Mounting Bracket, Glass Beads
A/TB-8.5-3-GLY	147228	Thermal Buffer, 8.5 oz Nalgene Bottle, 3 Sensing Points, Mounting Bracket, Food Grade Glycol





