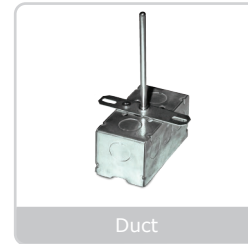




Immersion (Left) & Immersion with Machined Well (Right)



Duct



Duct without Box



Outside Air

HIGH AND LOW

Temperature Sensors & Transmitters

ACI High Temperature (HT) and Low Temperature (LT) sensors are air encapsulated. This allows the sensor to have a more stable output since the sensing element isn't subjected to the constant expansion and contraction of the encapsulation materials. The sensors are mounted in a 1/4" diameter stainless steel probe and have with either nickel plated fiberglass (HT) or teflon (LT) lead wires. Key components are rated up to 743°F for High Temperature Sensors and down to -328°F for Low Temperature Sensors.





SPECIFICATIONS

Transmitter Supply Voltage	8.5 to 32 VDC 249Ω Load: +13.5 to 32 VDC 499Ω Load: +18.5 to 32 VDC
Temperature Transmitter Output	2-wire, Linear 4 to 20 mA DC Current (Standard) 1 to 5 VDC or 2 to 10 VDC
Temperature Accuracy	+/- .12% @ 32°F (0°C)
Sensor Temperature Coefficient	0.00385Ω/Ω/°C
Sensor Operating Range	Low Temp: -328 to 392°F (-200 to 200°C) High Temp: -40 to 743°F (-40 to 395°C)
Temperature Effect	+/- .2% of full scale for spans <100°F (55°C) +/- .5% of full scale for spans >100°F (55°C)
Calibrated Accuracy (Linearity, Hysteresis)	+/- .2% of full scale for spans >500°F (275°C) +/- .4% of full scale for spans <500°F (275°C)
Minimum & Maximum Spans	50°F (28°C) minimum/1000°F (550°C) maximum
Transmitter Operating Temperature	-40 to 185°F (-40 to 85°C)
Sensor Standardization	Din IEC 751 class B
Product Dimensions (Duct without Box)	(L) 4.00" (W) 2.00" (H) 1.70"
Product Dimensions (Immersion)	(L) 4.56" (W) 2.81" (D) 1.62" (Dimension does not include probe length)
Product Dimensions (Immersion, Machined Well)	(L) 4.56" (W) 2.81" (D) 1.62" (Dimension does not include probe length)
Product Dimensions (Outside Air)	(H) 3.70" (W) 2.55" (D) 2.22" (Dimension does not include probe length)

ORDERING

Select one Series (A) & specify span if a TT version is selected. Choose one Configuration (B), one Length (C) & one Housing (E). In addition to the standard Galvanized Box Enclosure Option (E), a Bell Box is offered for Duct and Immersion Configurations. If a TT version was selected as a Sensor Series (A), complete (A), (B), (C) (D) & (E). If a TT version was not selected in (A), your part number is finished after completing (A), (B), (C) & (E). Only complete (D) if a TT version was selected in (A). **NOTE:** See Thermowell data sheet for proper well selection for all Immersion related sensors. For most TT100 and TT1K configurations, the transmitter board gets packaged in a separate enclosure.

A Sensor Series	B Configuration	C Length	D Output	E Housing
<input type="radio"/> A/100-3W-LT (Only Complete B, C, & E)	<input type="radio"/> D (Duct) ▶	<input type="radio"/> 4" <input type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 18" ▶	<input type="radio"/> 1 (1 to 5 VDC) ▶	<input type="radio"/> ---- <input type="radio"/> BB <input type="radio"/> GD <input type="radio"/> 4X
<input type="radio"/> A/1K-3W-LT (Only Complete B, C, & E)	<input type="radio"/> DO (Duct without Box) ▶	<input type="radio"/> 4" <input type="radio"/> 8" <input type="radio"/> 12" <input type="radio"/> 18" ▶	<input type="radio"/> 2 (2 to 10 VDC) ▶	<input type="radio"/> ----
<input type="radio"/> A/100-3W-HT (Only Complete B, C, & E)	<input type="radio"/> I (Immersion with Well) ▶	<input type="radio"/> 2.5" <input type="radio"/> 4" <input type="radio"/> 6" ▶	<input type="radio"/> 4 (4 to 20 mA) ▶	<input type="radio"/> ---- <input type="radio"/> BB <input type="radio"/> GD <input type="radio"/> 4X
<input type="radio"/> A/1K-3W-HT (Only Complete B, C, & E)	<input type="radio"/> INW (Immersion w/o Well) ▶	<input type="radio"/> 2.5" <input type="radio"/> 4" <input type="radio"/> 6" ▶		<input type="radio"/> ---- <input type="radio"/> BB <input type="radio"/> GD <input type="radio"/> 4X
<input type="radio"/> A/TT100-LT (Specify Span & Complete B, C, D & E)	<input type="radio"/> O (Outside Air) ▶	<input type="radio"/> ---- ▶		<input type="radio"/> ---- <input type="radio"/> BB <input type="radio"/> 4X
<input type="radio"/> A/TT1K-LT (Specify Span & Complete B, C, D & E)				
<input type="radio"/> A/TT100-HT (Specify Span & Complete B, C, D & E)				
<input type="radio"/> A/TT1K-HT (Specify Span & Complete B, C, D & E)				

BUILD PART NUMBER

After completing (A), (B), (C), (D) & (E) from the above table, fill in the Part Number Table below. An example part number is offered.

A	B	C	D	E
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EXAMPLE: A/1K-LT - INW - 4" - BB

