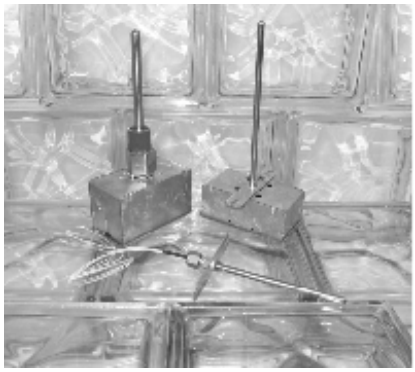
Automation Components Inc.

# Product Data

*High Temperature Platinum Sensors*

## ACI/100-HT
## ACI/1K-HT



### Product Description

The ACI/100-HT and ACI/1K-HT Series temperature sensors incorporate a Class B, thin film platinum RTD sensor, which conforms to DIN-IEC-751 platinum RTD standards.

One of the most important features of the ACI/100-HT and ACI/1K-HT is that they are air encapsulated. This allows the sensor to have a more stable output, since the sensing element is not subjected to the constant expansion and contraction of the encapsulation materials. The sensors are mounted in a 1/4" diameter stainless steel probe with 24" Nickel Plated Fiberglass lead wires. Only Remote Probe configurations come with 8' Nickel Plated Fiberglass lead wire. These sensors are compatible with all liquids and materials that are compatible with 316 Stainless Steel materials.

The ACI/100-HT and ACI/1K-HT sensors are available in a three-wire configuration incorporating high accuracy and interchangeability over a wide operating temperature range.

Some of the typical applications are for Stacks, Boilers, Oil Baths, Process Controls, Commercial Ovens, Plastics Processing, Bearings, Incubators, and Truck or Vehicle Engines.

These units are offered in Stainless Steel Duct and Duct without Box, Immersion and Remote Probe configurations.All units come with a two year factory warranty. Please contact ACI for more information regarding any of these products.

### Product Specifications

| | | | |
|---|---|---|---|
| **Output** | 100 Ohms @ 32°F (0°C)<br>1K Ohms @ 32°F (0°C) | **Resistance Characteristics** | +/- 0.12% Class B (standard) |
| **Temp. Coefficient** | 0.00385 Ohm/Ohm/°C | **Repeatability** | +/- 0.1°C |
| **Temperature Span** | -40 to 842°F (-40 to 450°C) | **Stability** | less than +/- 0.1°C drift |
| **Accuracy** | +/- 0.3°C @ 0°C single point | **Standardization** | DIN-IEC-751 (formerly DIN 43760) |

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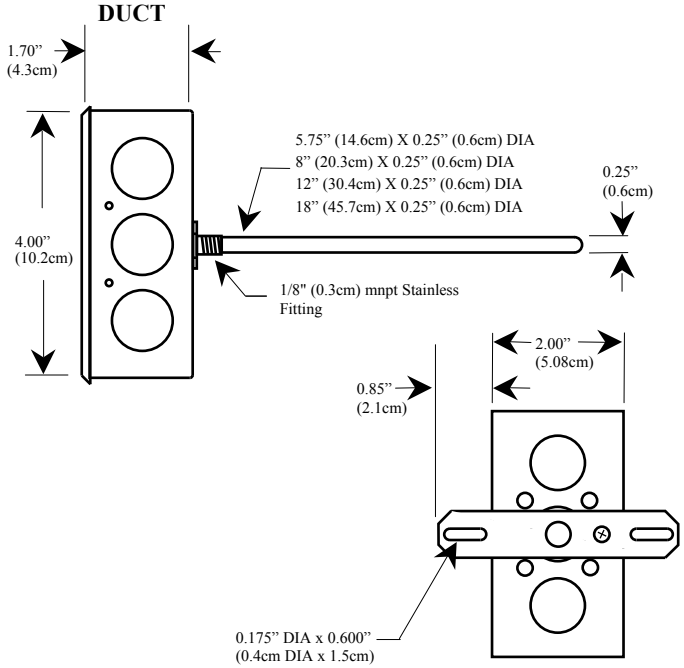
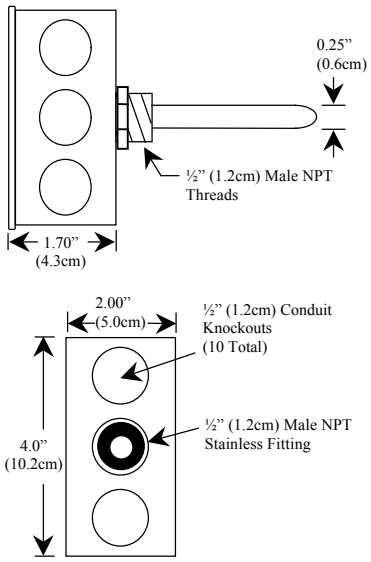
## Dimensions

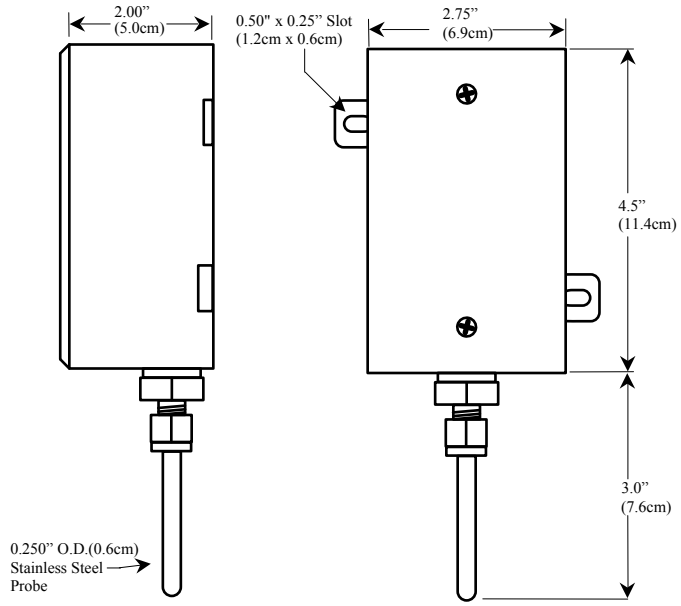
**DUCT**



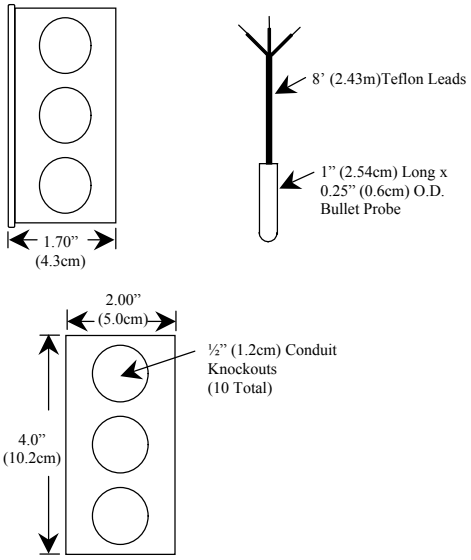

**IMMERSION**




**OUTDOOR AIR**




**REMOTE PROBE**




## Ordering Information

| | Sensor | # Wires | Configuration |
|---|---|---|---|
| A/ | [ ] | - **3W** (3-Wire) | -[ ] |

**100HT**
**1KHT**

**D -** Duct 4", 8", 12", 18"
**DO -** Duct without Box 4",8",12",18"
**I -** Immersion 2.5", 4", 8"
**RP -** Remote Probe (8' leads)

For CE compliance, sensor leads must be no longer than 3 meters in length. Additionally, certain product variations may not be CE compliant.
Contact ACI for further details

**Example:** A/100-HT-3W-D-4" or A/1K-HT-3W-RP

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