

# Air Temperature Sensors



## Description

Accurately monitoring and controlling ambient air temperature is important for maintaining product quality and minimizing energy costs. Company quality assurance departments and third party auditors frequently need to see proof that the temperature has been accurately maintained and recorded to show compliance with industry and government standards. The best way to accomplish this is with an air temperature sensor that is designed specifically for the application. Accurate control of heating or cooling an environmental chamber or manufacturing facility can provide significant cost savings by using only the energy required to meet the needs.

## Application

Burns offers expertise in understanding the environment in which temperature needs to be monitored: where to position the sensor, how to mount it, the best way to get accurate, stable and repeatable temperature readings. And we offer a wide range of standard or customized products in all shapes and sizes to meet those needs in all industries.

Specific application examples of our Air Temperature Sensors include:

- Pharmaceuticals storage
- Shipping containers
- Incubators
- Transporting by air, rail or truck
- Room air temperature for semi-conductor manufacture and similar controlled air temperature manufacturing environments
- Manufacturing and storage space where HVAC control is becoming increasingly important with rising energy costs: an accurate temperature measurement will minimize costs for conditioning the air.
- Weatherproof temperature measurement needs

For cryogenic or freezer temperature capabilities, search [burnsengineering.com](http://burnsengineering.com) for "cryogenic" or "freezer."

For other specific applications, please contact us directly.

## Features/Benefits

- Wide temperature range -196 to 200°C
- NIST traceable
- Variety of mounting configurations
- Custom designs to match the application
- RTD or thermocouple versions

## Specifications

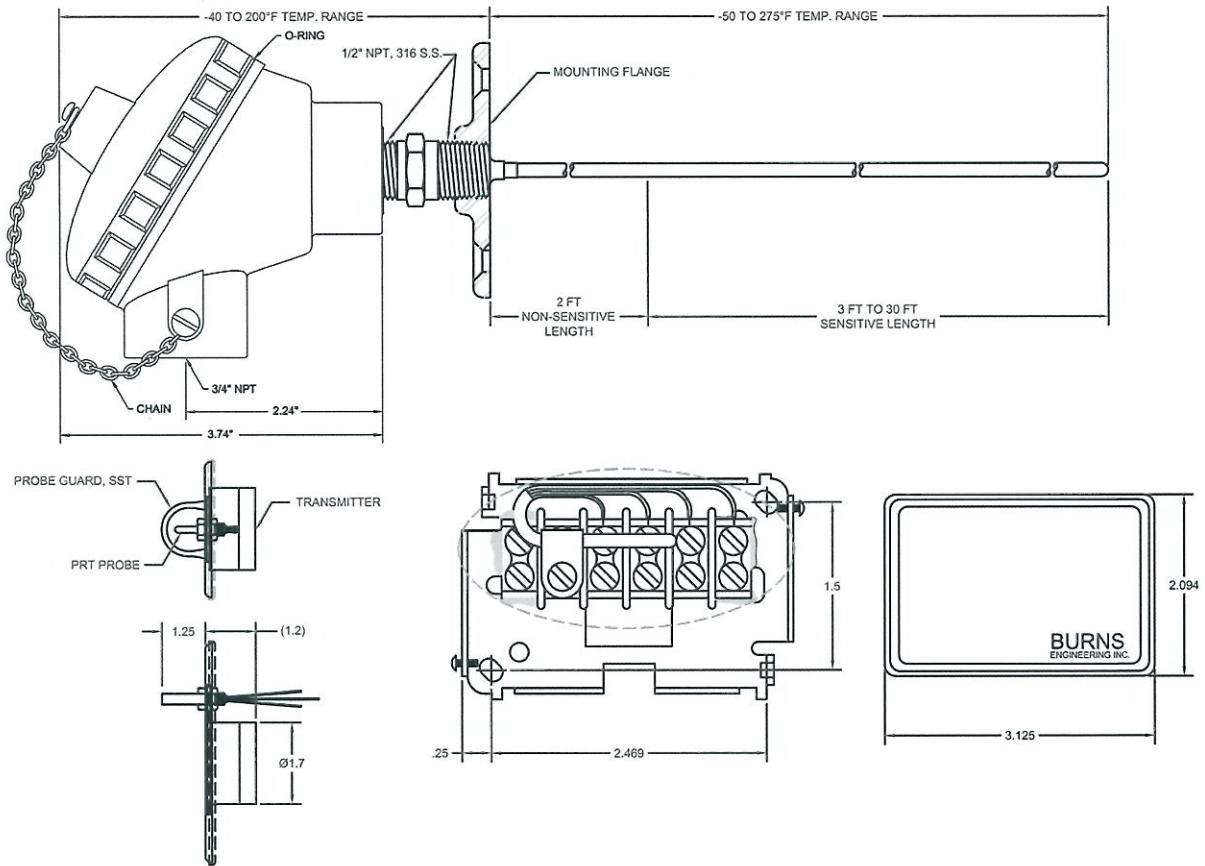
**Temperature Range:** Air temperature sensor models that range from as low as -40 to 200°C

**Element Configuration:** Single or Dual RTD or Thermocouple Accuracy

- RTD – IEC 60751 Class B or better
- Thermocouple Performance: ANSI MC96-1, Special Limits of Error

**Insulation Resistance:** 100 megohms minimum at 50 VDC at 25°C

**Mounting Materials:** Varies by model



## What will your next solution BE?

Durable temperature sensors that deliver accurate, stable and repeatable measurements. BE confident. Trust Burns Engineering for the most creative solutions to your most challenging temperature-sensing needs.

For current model numbers and precise ordering information, visit [burnsengineering.com](http://burnsengineering.com) and search > AIR TEMPERATURE



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