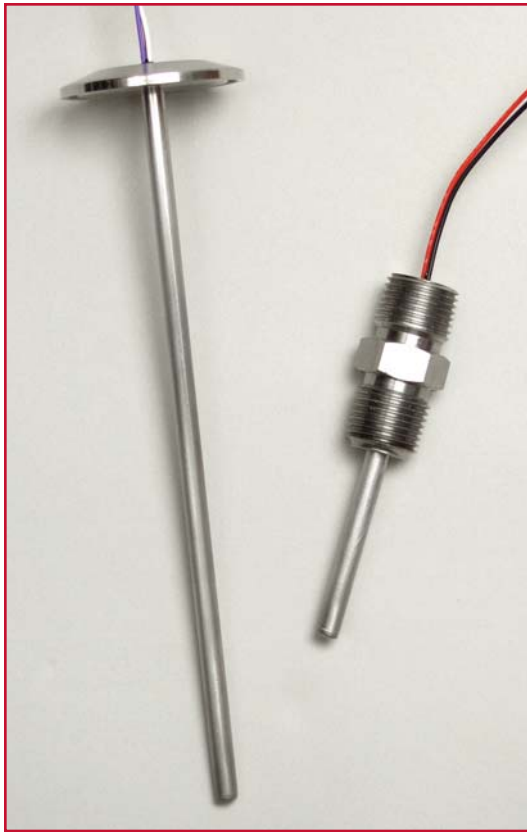


RTDs (Resistance Temperature Detectors)



Typical platinum RTDs offered by Madison Company provide a change in resistance that corresponds to a temperature change.

Madison Company's T Series Resistance Temperature Detectors (RTDs) are selected for their high accuracy. Used in a multitude of process, food and HVAC applications, these general-purpose RTDs are offered with a choice of elements and insulating materials, providing the user with a range of values and accuracies. Choices in lead wire, sheath materials and terminations are also available.

Madison's thin-film platinum RTDs are available in 100 Ohm or 1,000 Ohm versions and are suitable for applications that require small envelope size and linear output. The T Series RTDs respond rapidly to temperature changes with an accuracy of $\pm 0.7^{\circ}\text{C}$ at 20°C . Dependent upon the application requirements, the outside sheath materials and insulation materials will determine the sensor assembly's response time. Termination and fit up options are directly related to the application specifications of the customer.

The typical configurations are three wire output -40°C to 125°C (-40°F to 257°F).

Madison Company can also provide the interfacing transmitters, interconnecting cable and controllers for a matched subsystem.

Features

- Interchangeable without sensor-to-sensor recalibration
- Very small thermal mass for fast response time
- Air or liquid temperature sensing
- Proven reliability
- Long-term stability

Typical Applications

- **HVAC** – room, duct and refrigerant temperatures
- **Process Control** – temperature regulation
- **Appliances** – cooking and cleaning temperatures

Specifications

Sensor Type	Thin-film platinum RTD
Temperature Range	-40°C to 125°C (-40°F to 257°F)
Temperature Accuracy	±0.7°C
Resistance at 0°C	100 or 1000 ohms
Sheath Material	Customer defined, dependent on application
Termination and Leads	Customer defined, dependent on application

All specifications are subject to change without notice.



Sensor solutions for today and the future™



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