

Resistance Temperature Sensors

Thermistors

Watlow thermistors are designed to ensure fast, accurate and repeatable temperature measurement. Thermistors are highly sensitive to small changes in temperature and maintain accurate temperatures over a limited range. These sensors are made with either epoxy-coated or glass-coated constructions and can be used in the most demanding environmental conditions.

Performance Capabilities

- Epoxy thermistors are suitable for use from -75 to 302°F (-60 to 150°C). Glass-coated thermistors are available for use from -75 to 500°F (-60 to 260°C). Please contact the factory for availability. Thermistors have an accuracy of $\pm 1\%$ at 77°F (25°C).

Features and Benefits

Designed to maintain accuracy over the life of the sensor

- Improved process control

High resistance

- Large signal change compared to RTDs minimizing the impact of lead wire resistance errors

Interchangeable

- Maintains good system repeatability

Small mass and internal heat transfer paste

- Quick time response

Point sensitive

- Able to sense temperature in a very specific location



Typical Applications

Heating, ventilation and air conditioning (HVAC)

- Air conditioning
- Refrigeration and freezer temperature control

Food preparation

- Deep fryers
- Food storage systems

Medical

- Blood analysis and dialysis equipment
- Infant incubators

Industrial electronics

- Fluid temperature measurement
- Liquid level indicators