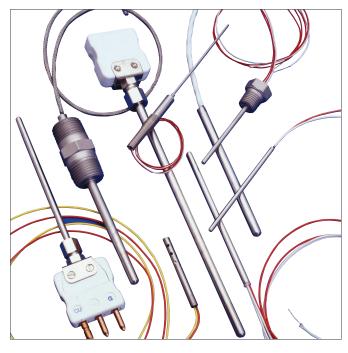


Fast, Accurate, Repeatable Temperature Measurement

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). High temperature rugged glass coated thermistors rated up to 572°F (300°C) are available for select high volume applications. 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 RTD's minimizing the impact of lead wire resistance errors

Interchangeable

Maintains good system repeatability

Small mass and internal heat transfer paste

Quick time response

Pointe 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

Medica

- · Blood analysis and dialysis equipment
- · Infant incubators

Industrial electronics

- Fluid temperature measurement
- · Liquid level indicators





Standard Industrial Thermistor with Insulated Leads Style TB

Style TB thermistors are constructed from a durable and rigid 316 stainless steel sheath and have standard insulated leads with an epoxy seal to resist moisture and pull out. Thermistors have a very fast time response and are available in 1000, 2200, 3000, 10,000 and 100,000 ohm elements with temperature ratings from -75° to 302°F (-60 to 150°C) with 1 percent accuracy or from -75 to 500°F (-60 to 260°C) with 15 percent accuracy.

Features and Benefits

Rigid 316 stainless steel sheath

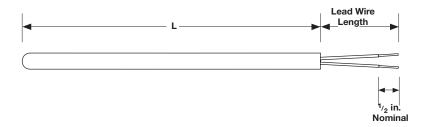
Ideal for industrial applications

Cold end epoxy seal

Rated to 260°C (500°F)

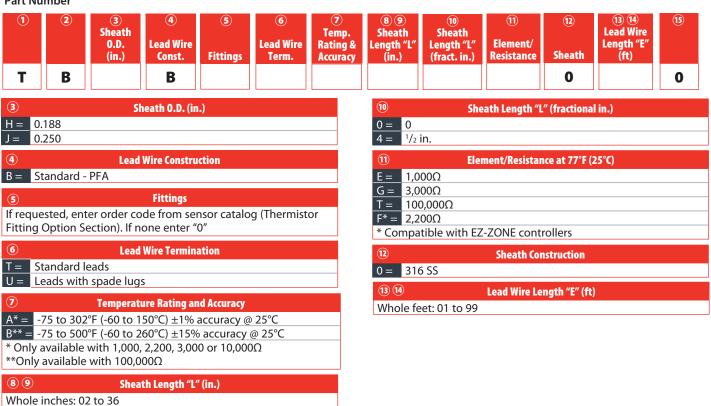
Internal heat transfer paste

· Quick time response



Ordering Information

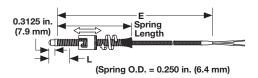
Part Number



Speciality Construction Styles

Adjustable Spring Style

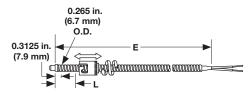
Part Number 10 = 6 in. Part Number 11 = 12 in.



Adjustable spring style thermocouples bend to any angle to fit a wide range of hole depths, eliminating the need to stock numerous styles.

Adjustable Armor Style

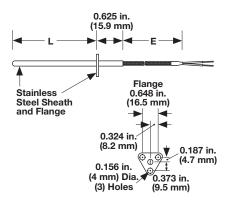
Part Number 12



Adjustable armor thermocouples bend to any angle to fit a wide range of hole depths, eliminating the need to stock numerous styles. A stainless steel hose offers additional lead protection in demanding applications.

Cartridge with Flange

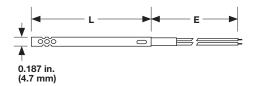
Part Number 25



The flanged thermocouple allows rapid assembly and low profile when going through bulkheads.

Open Air

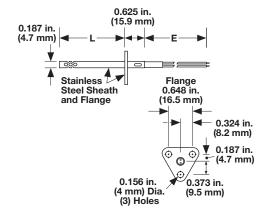
Part Number 50



Aspirated tube design allows air to flow directly over thermistor for fast time response.

Open Air with Flange

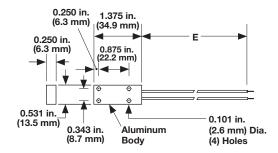
Part Number 55



Aspirated tube design allows air to flow directly over thermistor for fast time response with a flange for mounting sensor.

Surface Mount

Part Number 80



Low profile aluminum block for fast accurate surface measurement.

Powered by Possibility

WATLOW

To be automatically connected to the nearest North American Technical Sales Office:

1-800-WATLOW2 • www.watlow.com inquiry@watlow.com

International Technical Sales Offices: Austria +43 6244 20129 0 India

China +86 21 3532 8532 France +33 1 41 32 79 70 Germany +49 7253 9400 0 India +91 40 6661 2700 Italy +39 02 458 8841 Japan +81 3 3518 6630 Korea +82 2 2169 2600 Mexico +52 442 256 2200 Singapore +65 6773 9488 Spain +34 91 675 1292 Taiwan +886 7 288 5168 UK +44 115 964 0777