

RTDs and Thermocouples

ENVIROSEAL™-HD Sensor

Watlow's ENVIROSEAL™-HD temperature sensor keeps out moisture, oil and contaminants in all of your heavy-duty applications including those outside applications exposed to harsh weather, oils and other extreme moisture environments. The ENVIROSEAL-HD sensor is also designed to provide accurate, dependable measurements in high-vibration environments.

Features and Benefits

Submersible and 1200psi pressure wash rated seal (not including connector area)

- Protects the sensor from washdown or other extreme moisture environments

Oil Resistant Materials

- Sensors maintain a long life even when exposed to oil, gasoline, or diesel fuel

Vibration resistant design, 25 lb pull out force rating

- Tough, rugged design to hold up to the roughest applications

-40 to 200°C (-40 to 392°F) sensor temperature rating

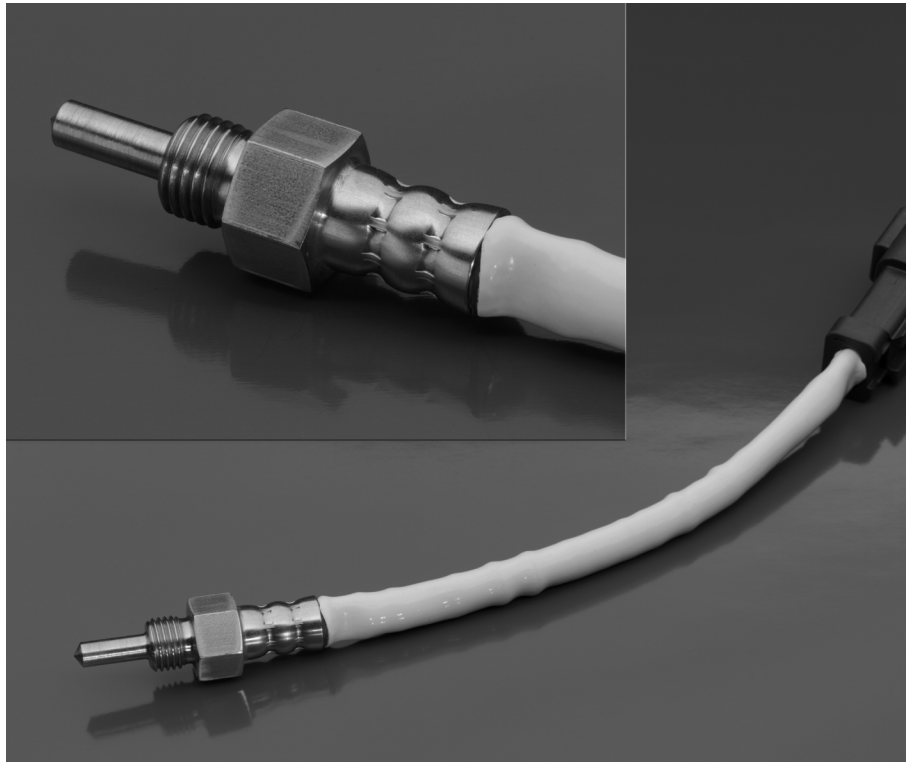
- Offers superior application flexibility

Time response of two seconds

- Fast response will measure 63.2 percent (first order) of the temperature change in two seconds or less

250psi threaded fitting pressure rating

- Suitable for most rugged applications



Applications

- Engine coolant or oil
- Refrigeration or condensation units
- Industrial equipment
- Heat exchangers
- Gear boxes
- Hydraulic fluid
- Marine

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ENVIROSEAL™ HD Sensor

Ordering Information—To order, complete the part number on the right with the information below:

1 2 3 4 5 6 7 8 9 10
H D

3. Sensor Type

- A = 100Ω DIN 0.00385 RTD Class A element, 2-wire
- B = 100Ω DIN 0.00385 RTD Class B element, 2-wire
- C = 1000Ω DIN 0.00385 RTD Class A element, 2-wire
- D = 1000Ω DIN 0.00385 RTD Class B element, 2-wire
- K = Ungrounded standard limits Type K thermocouple

4-5. Sheath Length "L"

- 07 = 0.75 in. (19.05 mm)
- 15 = 1.50 in. (38.1 mm)
- 30 = 3.00 in. (76.2 mm)

6. Threaded Fitting

- 4 = 0.25 in. (6.35 mm) NPT male threads
"F" = 1.4 in. (35.56 mm)
- 8 = 0.125 in. (3.18 mm) NPT male threads
"F" = 1.2 in. (30.48 mm)

7. Fitting Material

- B = Brass
- S = 316 stainless steel

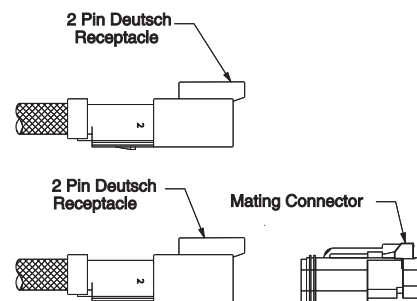
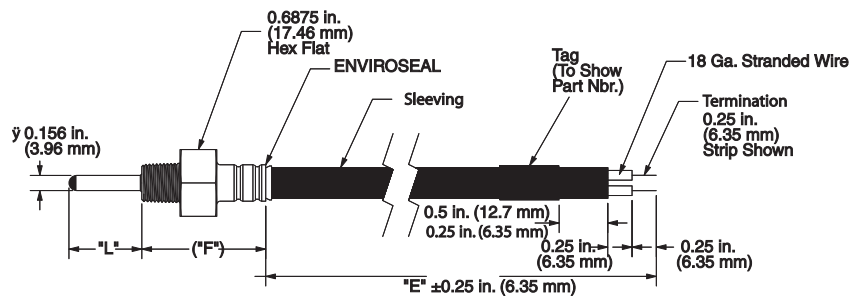
8-9. Lead Length "E" (whole inches)

(18 gauge stranded conductor lead wire)

- 06 = 6 in. (152.4 mm)
- 12 = 12 in. (304.8 mm)
- 24 = 24 in. (609.6 mm)

10. Lead Wire Terminations

- T = Standard 0.25 in. (6.35 mm) stripped ends
- 2 = 2-pin receptacle Deutsch connector 125°C (257°F)
- 4 = 2-pin receptacle Deutsch connector 125°C (257°F) with mating connector



RTDs and Thermistors