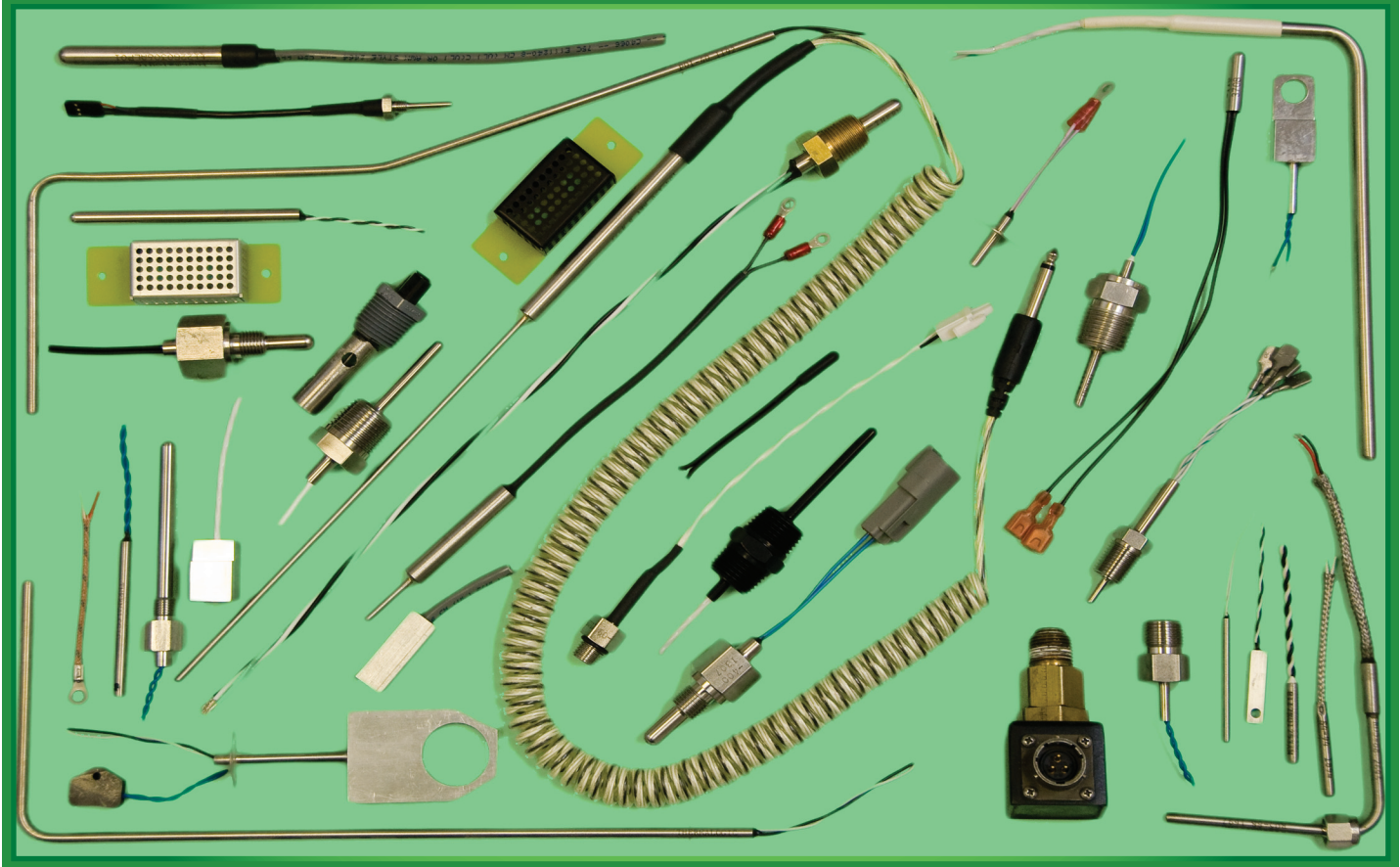




# Temp Sensors

Custom RTD, Thermocouple, and  
Thermistor Temperature  
Sensor Assemblies



## PRODUCT FEATURES

### Built to Order Philosophy:

- Per Customer Specifications
- Prompt Delivery
- Proven Designs
- Curve Matching

### Custom Designs:

- Elements
- Fill type
- Leads
- Sheaths
- Fittings
- Termination

### Standards:

- 100% RoHS Compliant
- NIST Traceable Calibration

## PRODUCT SPECIFICATIONS

### Thermistor Sensor:

- High Stability
- Standard or Special Curves
- Range:  $-40$  to  $250^{\circ}\text{C}$  ( $-40$  to  $500^{\circ}\text{F}$ )
- Choice of Element Tolerance

### RTD Sensor:

- Rugged Platinum Film Elements
- Standard or Special Curves
- Range:  $-55$  to  $450^{\circ}\text{C}$  ( $-67$  to  $900^{\circ}\text{F}$ )
- Choice of Element Tolerance

### Thermocouple Sensor:

- Grounded or Un-Grounded
- Range:  $-100$  to  $450^{\circ}\text{C}$  ( $-148$  to  $900^{\circ}\text{F}$ )

### Semiconductor Sensor:

- Industry Standard Elements

## PRODUCT COMMITMENT

### Built to Last:

- 4 Year Warranty
- Rugged Construction
- Durable Designs
- 316 Stainless Steel Sheaths
- Stainless Steel Armored Cables
- High Strength End Seals

### Full Service Factory Direct:

- Sales
- R&D
- System Analysis
- Product Design
- Manufacturing
- Quality Control
- Warranty Support
- Customer Support

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800-343-4492

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# Temperature Sensor Assemblies

Thermalogic specializes in efficient delivery of built to order temperature sensor assemblies. Our custom build philosophy offers solutions that are not readily available with many off-the-shelf products. Thermalogic can work from your drawings, sketches, descriptions, ideas or obsolete sensors to meet your exact sensor needs. Below is a representation of an almost infinite array of components that may be used to design the sensor you require. **CUSTOM SPECIFICATIONS DO NOT MEAN LONG DELAYS.**



1/8" Diameter Sheath



3/16" Diameter Sheath



1/4" Diameter Sheath



Kynar Coated Sheath



Flat Tip Style Sheath



Pointed Tip Style Sheath



2 Slot Open Air Design



4 Slot Open Air Design



Open Air Delrin Sheath



Transition Style Sheath



Sheath with Mounting Flange



Open Air Plastic Fitting



Graphite Shoe Style Fitting

## Elements

- ◇ Thermistors
  - 10K  $\Omega$ , 24K  $\Omega$ , etc.
- ◇ RTDs
  - 100  $\Omega$ , 1K  $\Omega$ , etc.
- ◇ Thermocouples
  - J,K,N,S,T,E, etc.
- ◇ Semiconductors
  - AD590, LM135, etc.
- ◇ Linear Networks

## Fill Types

- ◇ Low Temperature Epoxy
  - -55 to 170°C
- ◇ Mid Temperature Epoxy
  - -40 to 125°C
- ◇ High Temperature Epoxy
  - 25 to 230°C
- ◇ Ceramic
  - 25 to 450°C
- ◇ No Fill Option Available

## Leads

- ◇ Teflon (TFE & PTFE)
- ◇ Pvc
- ◇ Polyolefin
- ◇ Fiberglass
- ◇ Jacketed
- ◇ Twisted or Straight
- ◇ Shielded
- ◇ Armor Cable
- ◇ Stainless Steel Braid
- ◇ Spring Style Strain Relief

## Sheaths

- ◇ Tubular
- ◇ Open Air
- ◇ Square Block
- ◇ Straight or Bent
- ◇ Custom Housings
- ◇ Stainless Steel
- ◇ Aluminum
- ◇ Brass
- ◇ Coatings and Platings

## Fittings

- ◇ Stainless Steel
- ◇ Aluminum
- ◇ Brass
- ◇ Plastic
- ◇ Surface Mount
- ◇ Any Size NPT Thread
- ◇ Any Size SAE Thread
- ◇ Wall Mount Cage
- ◇ Flanges; Any Shape

## Terminations

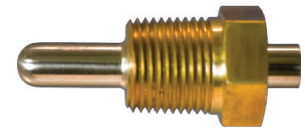
- ◇ Stripped Ends
- ◇ Ring Terminals
- ◇ Spade Terminals
- ◇ Fork Terminals
- ◇ BNC Connectors
- ◇ Phone Plugs
- ◇ Amp Connectors
- ◇ Molex Connectors
- ◇ Delco Connectors
- ◇ Deutsch Connectors



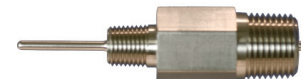
UNF Straight Thread Fitting



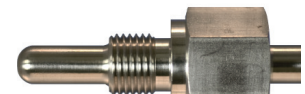
1/8" NPT Thread Style Fitting



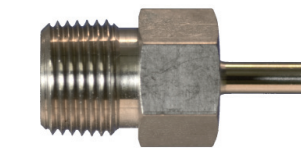
1/2" NPT Thread Brass Fitting



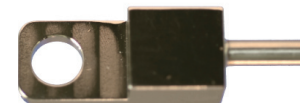
Double Ended Style Fitting



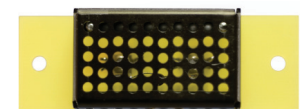
9/16" UNF & 3/8" Dia Sheath



1/2" NPT Fitting - No Sheath



Surface Mount Style Fitting



Open Air Wall Mount with Cage

**Temperature, Humidity, Process Controls, Sensors & Transmitters**  
**Design, Engineering, Manufacturing for OEMs & Volume Users**

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