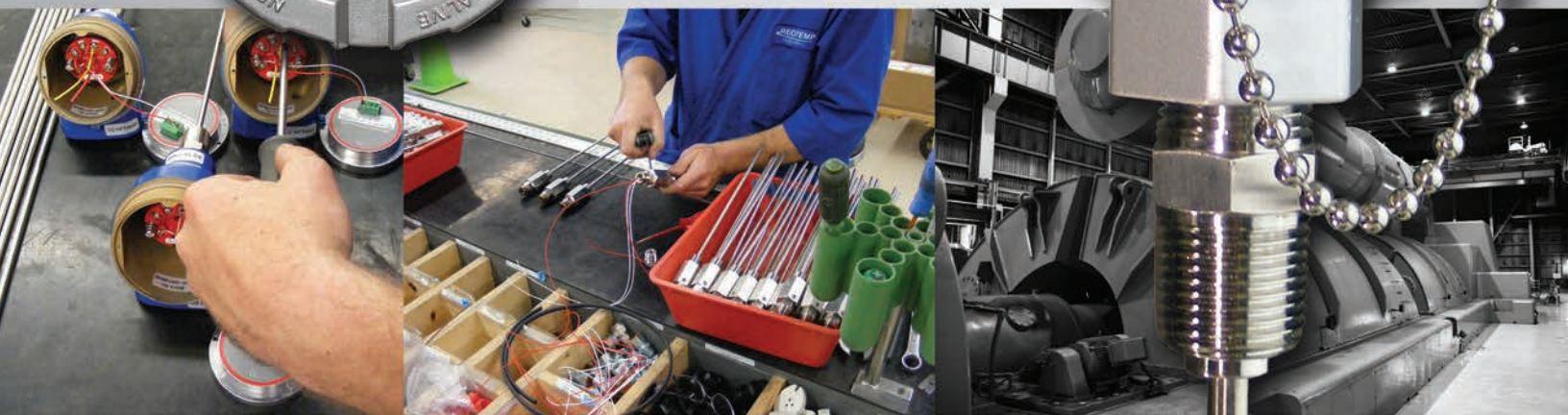


REOTEMP

INSTRUMENTS

THERMOCOUPLE & RTD Product Guide



REOTEMP is a globally recognized ISO 9001 manufacturer of temperature and pressure instrumentation. REOTEMP sells through a mature distribution network that reaches all 50 states and 30 countries worldwide.

Our reputation is built on high quality products, quick standard lead times, and exceptional customer support. We're dedicated to providing our customers with complete satisfaction, from the first phone call to the design and quality of the instrument they receive.

Measuring your world since 1965



MADE IN THE USA

The REOTEMP Difference...

▶ LEAD TIMES

5-7 Days - Standard Lead Time
Expedites Available

Note: 5-7 days is std. lead time for most products. Call for specific lead times.

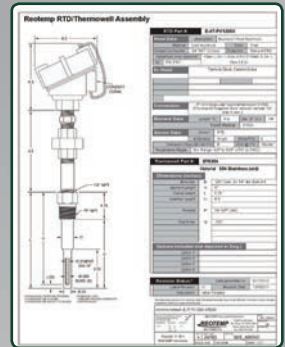
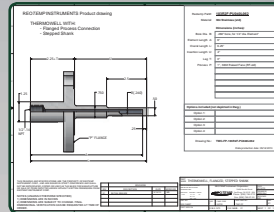
▶ ONLINE PRODUCT CONFIGURATORS

Pricing, Lead Time, Photos, Drawings, Quotes

Instant Drawings

Part Number	Description	Price	Lead Time
1	Standard Stem	35.00	42.00
2	Standard Stem with 1/2" NPT	39.00	36.00
3	Standard Stem with 3/4" NPT	43.00	36.00
4	Standard Stem with 1" NPT	47.00	36.00
5	Standard Stem with 1 1/2" NPT	51.00	36.00
6	Standard Stem with 2" NPT	55.00	36.00
7	Standard Stem with 2 1/2" NPT	59.00	36.00
8	Standard Stem with 3" NPT	63.00	36.00
9	Standard Stem with 3 1/2" NPT	67.00	36.00
10	Standard Stem with 4" NPT	71.00	36.00

Part Number	Description	Price	Lead Time
11	Standard Stem with 1/2" NPT and 1/2" NPT	38.00	36.00
12	Standard Stem with 3/4" NPT and 3/4" NPT	42.00	36.00
13	Standard Stem with 1" NPT and 1" NPT	46.00	36.00
14	Standard Stem with 1 1/2" NPT and 1 1/2" NPT	50.00	36.00
15	Standard Stem with 2" NPT and 2" NPT	54.00	36.00
16	Standard Stem with 2 1/2" NPT and 2 1/2" NPT	58.00	36.00
17	Standard Stem with 3" NPT and 3" NPT	62.00	36.00
18	Standard Stem with 3 1/2" NPT and 3 1/2" NPT	66.00	36.00
19	Standard Stem with 4" NPT and 4" NPT	70.00	36.00
20	Standard Stem with 4 1/2" NPT and 4 1/2" NPT	74.00	36.00

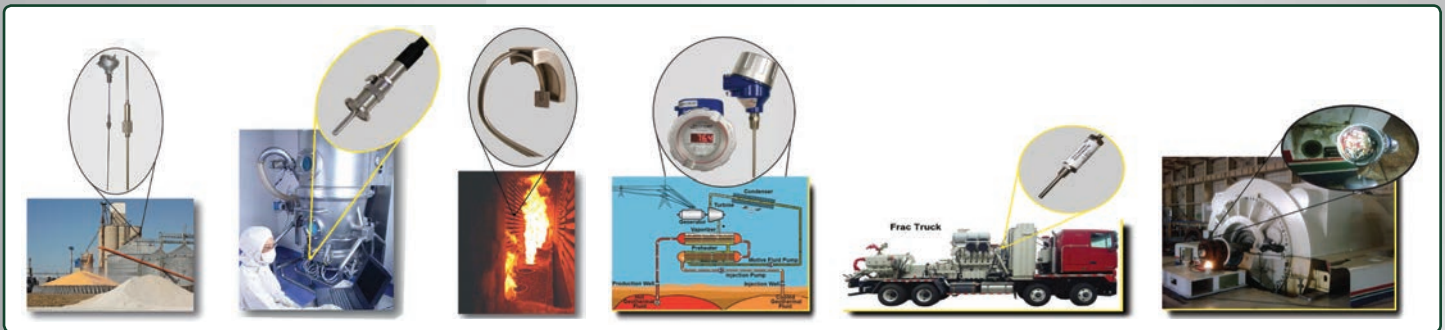


www.reotemp.com

▶ CUSTOMER SUPPORT

- Direct Access to Product Managers, Engineers, and Product Specialist
- Friendly and knowledgeable inside sales team

▶ APPLICATION SPECIFIC SOLUTIONS



▶ MARKETS/MAJOR CLIENTS

Oil, Gas, and Refining	Industrial	Pharma/Biotech
Utility / Municipality	Government/Military	Engineering & Construction
Food & Beverage		

HEAD ASSEMBLIES



- Large Head Selection (explosion proof, corrosion resistant, economical, ATEX, etc.)
- A transmitter can be added inside the head (HART or 4-20mA)
- LED display available



Transmitters (HART, Profibus, Fieldbus or 4-20mA)



Online Product Configurator is available for this product at www.reotemp.com



Hi-Vibe is an optional feature on many of our RTD sensors.

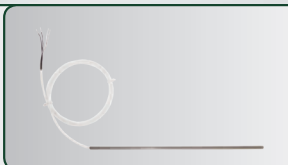
It's a proprietary sensor design that significantly improves lifespan and helps to maintain calibration in high vibration environments.

Look for the Hi-Vibe Logo.

STEM ASSEMBLIES



- Comes in a wide variety of styles and terminations.
- Customize them to your process or application.



Cut-to-Length Sensors

- Field Cuttable
- Cut to length using tube cutter.

DUAL MODE THERMOMETERS



- Mechanical reading locally and an electrical reading remotely
- Redundant temperature sensing increases safety



This product is available in a mil-spec approved model that is built to withstand tough shock and vibration environments (MIL-STD-167-1A and MIL-S-901D).



Hi-Accuracy

Hi-Accuracy is an optional feature on many of our RTD sensors.

Reotemp uses high-end fixed point calibration cells to determine precise coefficients for the sensor you purchase. You will later input these values into your transmitter.

Once the precision coefficients are entered, your sensor will be roughly 5 times more accurate!

Look for the Hi-Accuracy Logo.

5-7 DAY

States *Standard Lead Time* for this product



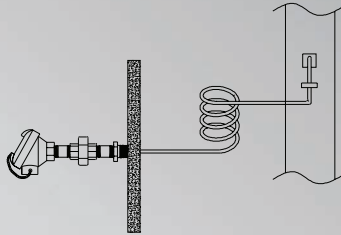
Expedite typically available

WELD PAD THERMOCOUPLES

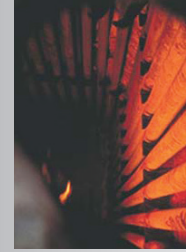


- Full line of standard and custom weld pad thermocouples.
- Allows a temperature sensor to be welded directly onto piping or other metal surfaces.

Knife Edge



STORY FROM THE FIELD



During a maintenance shut down, a power plant in Ohio needed over 5 miles of sensors in less than 2 weeks.

REOTEMP delivered on time!

PROTECTION TUBES

5-7 DAY



Ceramic protection tubes are used in high temperature applications where a traditional thermowell would not be able to withstand the extreme temperatures.

Metal tubes are used in applications where corrosion is a concern. They are also used for their economical price point when compared to thermowells.

- Large stock of Noble Metals (R & S)

Metal Sheath Materials:

304SS
316SS
Carbon Steel
Inconel 600

Ceramic Sheath Materials:

	Max Temp.
Mullite	2,700° F
Alumina	3,400° F

HANDHELD PROBES

5-7 DAY



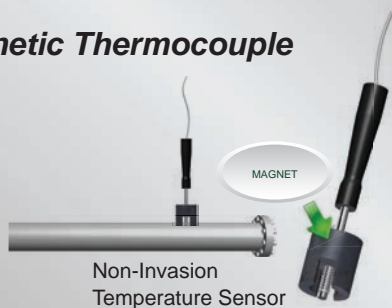
Hi-Vibe



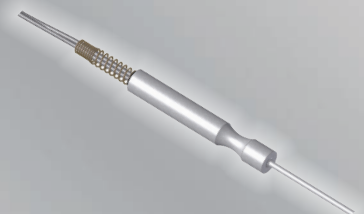
REOTEMP Handheld Probes come in a wide variety of shapes and styles. Reotemp has made a number of probes for specific applications or to meet a customer's unique needs.

PIERCING PROBES

Magnetic Thermocouple



"Tuna Probe"



All Stainless Steel

Z-Temp

TRANSMITTERS

SlimLine

TRANSMITTERS

5-7 DAY



Hi-Vibe



5-7 DAY



Hi-Vibe



The Z-Temp is perfectly suited for applications where an explosion-proof sensor with a digital readout is required, but all of the extra features are not.



Features/Benefits:

- The core functionality of a fully featured smart transmitter at a fraction of the cost.
- Bright red, easy-to-read LED display
- Explosion proof housing
- FM, CSA, ATEX, EExd
- 4-20 mA output
- HART available



REOTEMP's SlimLine Temperature Transmitter is a compact, rugged transmitter perfectly suited to applications where space is limited.

Features/Benefits:

- Minimal installation space required
- High vibration & shock resistance
- Hermetically sealed (To NEMA 7, IP67)
- All-Welded 316SS construction

SANITARY HEAD ASSEMBLIES

5-7 DAY



Hi-Vibe



REOTEMP's Sanitary RTDs are designed for temperature sensing in food, dairy, beverage and pharmaceutical applications where sensor corrosion and product contamination are critical factors.

Features/Benefits:

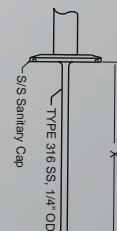
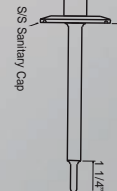
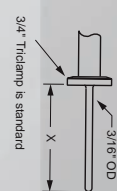
- Ideal for CIP (clean-in-place) or SIP
- All wetted parts highly polished to exceed 3A requirements
- Tri-clamp design
- Variety of stem and termination options



Reduced Tip Stem

Std. 1/4" dia. stem

Mini-Stem



ReoClick

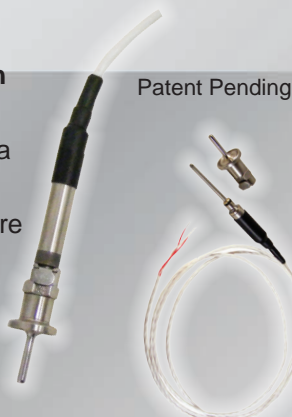
5-7 DAY



Hi-Vibe



- Disconnect/re-connect temperature sensor with the click of a button.
- Can be placed directly in a calibration bath.
- Maintains process pressure when disconnected.



Patent Pending



ReoCube

5-7 DAY



Hi-Vibe



REOTEMP's ReoCube Isolation Bottles are used to monitor the temperature of ultralow freezers or refrigerators. By submerging the temperature sensor(s), the ReoCube ensures the temperature readings will not be thrown off when the freezer door is opened and ambient air rushes in.



"The configurator is awesome. Never worked with something so easy and user friendly. I like this"

MULTI-POINT SENSORS

REOTEMP manufactures multi-point sensors for chemical silos, scrubbers, storage tanks and a host of other process applications where a temperature profile is beneficial.

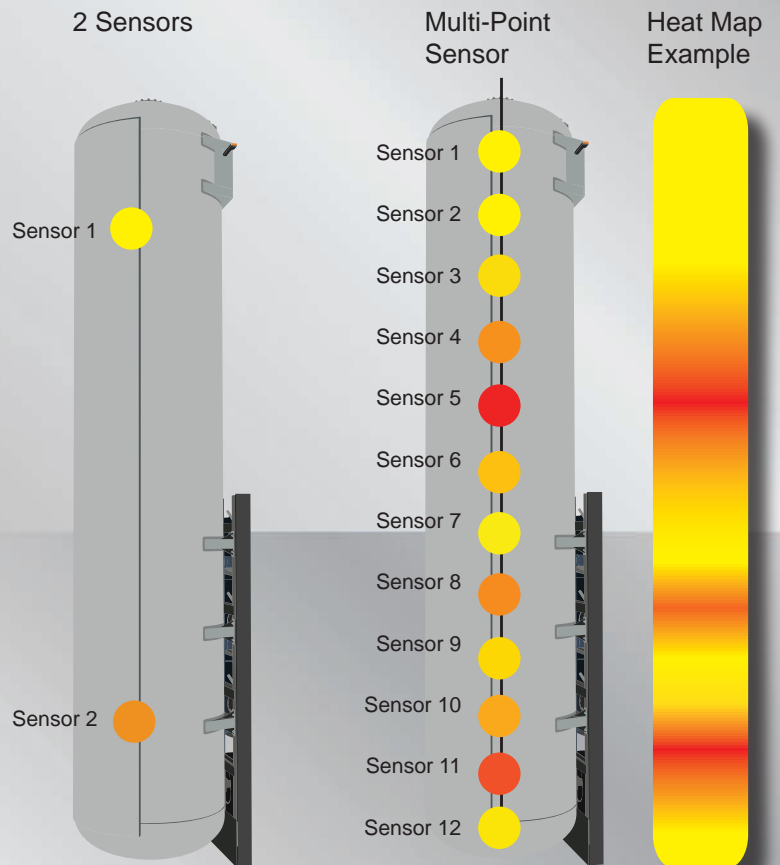
In a multi-point sensor, the temperature sensors are spread out along the length of the stem at strategic locations. This data creates a temperature cross section of the process. A multi-point sensor gives the operator more data points, which allows them to optimize their process and identify hot spots.

Why are Multi-Points used?

- Identify hot spots
- Discrete temperature mapping
- Temperature averaging across large areas
- To better understand and optimize process efficiency

Common Applications

- Scrubbers/NOX/SCR
- Chemical Silos
- Crude Oil Distillation
- Ovens
- Ducts
- Exhaust Stacks
- Grain Silo
- Beverage Processing
- Storage Tanks



TURBINE SPECIFIC SENSORS

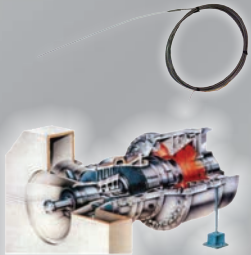


REOTEMP provides a wide-range of turbine specific sensors to the power generation industry. Below are some of the more common types of turbine sensors REOTEMP manufactures. Contact us with your specific application and needs.

REOTEMP Turbine Sensors Characteristics:

- Long Life Span
- Vibration Resistant
- Durable Design

Flashback Thermocouples



Blade Path Thermocouples



Bearing Thermocouples



THERMOWELLS

- Online configurator provides you detailed drawing of a matched thermowell & sensor.
- Custom and standard thermowells
- Large Stock

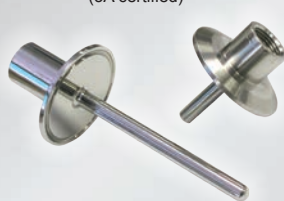
Threaded



Flanged



Sanitary (3A certified)



Weld-in



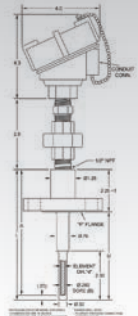
Available Options

- Wake Frequency
- Hydrostatic test
- Full penetration welding
- NACE certified

5-7 DAY



Configure Sensor with Thermowell



www.reotemp.com

ECOPROBE SYSTEM

(wireless temperature monitoring for the compost & waste water industries)

Many waste water treatment plants compost de-watered biosolids on site. The compost must maintain minimum internal temperatures high enough to kill pathogens and other harmful elements for an extended period of time. Reotemp's EcoProbe System allows these facilities to wirelessly collect that temperature information, saving them time and reducing their operating costs.

Features/Benefits

- Reduced labor
- Reduced Processing Time (typical)
- PLC Integration or PC based software
- Remote Access/Alarm Notification



PLC-Based System



"Not one of the thermocouples you have supplied to date for our Power Plant has failed"

ACCESSORIES

Connection Heads



Transmitters (in-head)



- Calibration software available

(HART, Profibus, Fieldbus or analog 4-20mA)

Spring Loaded Kit



Plugs & Jacks



Terminal Blocks



CALIBRATION SERVICES

REOTEMP uses a combination of fixed point calibration cells and fluid-filled calibration equipment to perform sensor calibrations from -196°C to $1,300^{\circ}\text{C}$. We provide calibrations for metrology and industrial customer in most industrial markets. Our friendly and knowledgeable calibration technicians will ensure your sensors have the accuracy required for your application.



CERTIFICATION SERVICES

Certificate of Conformance (General conformance to published specs)

Certificate of Calibration (Includes logged points and sticker)

3A Sanitary Certificates

Compliance and material certs for all wetted components

CONTACT US

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(Int'l) - (00)1-858-784-0710

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