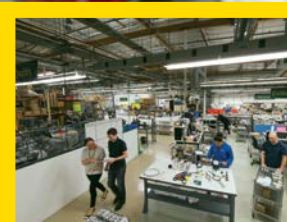


REOTEMP[®]



INSTRUMENTS

THERMOCOUPLE & RTD



Measuring your world since 1965[™]

WHY REOTEMP?



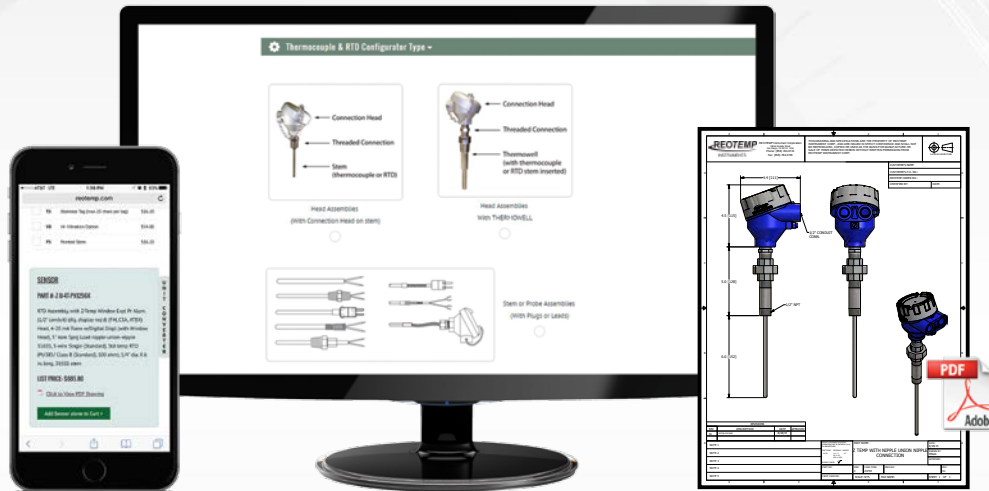
Exceptional Customer Support

Direct access to our friendly and knowledgeable regional sales teams, product managers, engineers, and product specialists. No phone trees, no frustration.



Online Product Configurators

Our online product configurators are powerful tools that make specifying temperature and pressure instrumentation quick & easy. Create part numbers, see list pricing, & generate custom engineering drawings in seconds.



Fast Standard Lead Times



Expedites Available

Product	Standard Lead Time	Expedite
Head & Stem Assemblies	5-7 Days	1 Day
Digital Thermometers	5-7 Days	1 Day
Dual Mode Thermometers	5-7 Days	2-3 Days
Thermowells	1-10 Days	Same Day



REOTEMP is a globally recognized ISO 9001 registered company that has been **manufacturing in the USA since 1965.**

HEAD ASSEMBLIES 5-7 DAYS

Large Head Selection: Explosion Proof, Corrosion Resistant, Digital Display, Economical, ATEX, FM, CSA, IECEx, IP65 or Greater, NEMA 4X



TC/RTD Head Assemblies Offer a Wide Variety of Stem and Termination Options



A transmitter can be added inside the head (HART, 4-20mA, PROFIBUS, or Fieldbus).



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.



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 up to 5 times more accurate!

HANDHELD PROBES



FLAMEBLOCK™



The FlameBlock™ sensor improves safety by eliminating a flame path out of the head, while maintaining a spring loaded stem for positive thermowell contact.

Features/Benefits:

- CSA Certified
- Spring Loaded Sensor without Direct Flame Path from the Head
- RTD or Thermocouple
- Class I, Div. 1, Gr A, B, C, & D

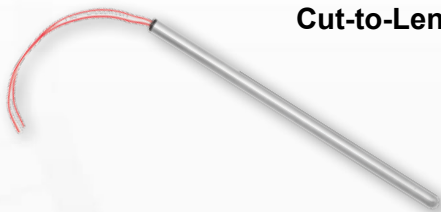


STEM ASSEMBLIES 5-7 DAYS



- Wide Variety of Styles and Terminations
- Customized to Your Process or Application

Cut-to-Length Sensors



- Field Cuttable
- Cut to length using tube cutter.

Z-TEMP™ TRANSMITTER



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

Bright, Easy-to-read LED Display



The Core Functionality of a Fully Featured Smart Transmitter at a Fraction of the Cost.

Explosion Proof Housing FM, CSA, ATEX, EExd, IP68, NEMA 4X



4-20 mA output, HART Available

DIGITAL THERMOMETERS 5-7 DAYS



4-20mA Output Available

- 5 Year Battery Life
- 4-20mA Output Available (Loop Powered)
- -328°F to 1112°F (-200°C to 600°C)

PROTECTION TUBES



Material	Type	Max Temp
Carbon Steel	Metal	700°F
304SS	Metal	1,650°F
316SS	Metal	1,650°F
Inconel 600	Metal	2,150°F
Mullite	Ceramic	2,700°F
Hexoloy®	Ceramic	3,000°F
Alumina	Ceramic	3,400°F

Hexoloy® is a registered trademark of Saint-Gobain Ceramics & Plastics, Inc.

DMT 5-7 DAYS



Bimetal Thermometer for Local Reading

RTD or Thermocouple for Remote Reading

Increase Safety Get a local reading when power fails or get a remote reading when the stem is bent.

SLIMLINE™ TRANSMITTERS



4 Pin Bendix



1/2" NPT Conduit



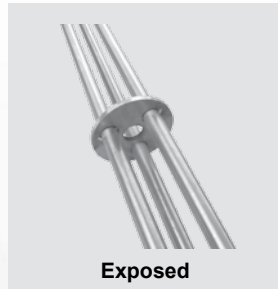
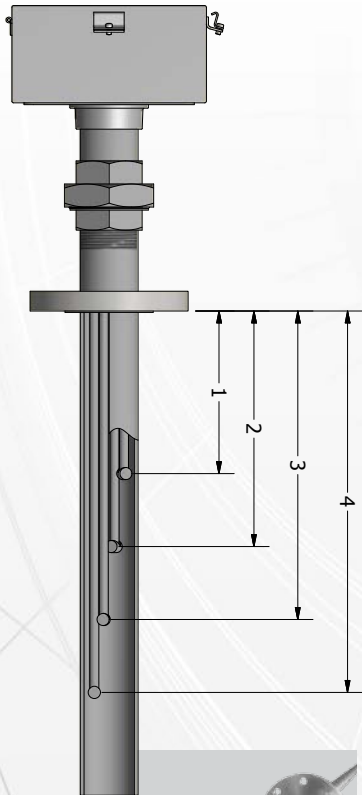
Hirschmann



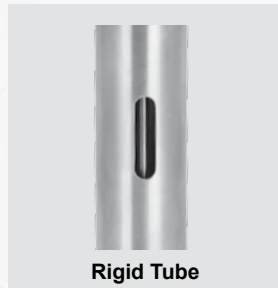
M12

- Minimal Installation Space Required
- Rugged, Vibration & Impact Resistant Transmitters
- Hermetically Sealed (NEMA 7, IP67)

MULTIPOINT SENSORS



Exposed



Rigid Tube

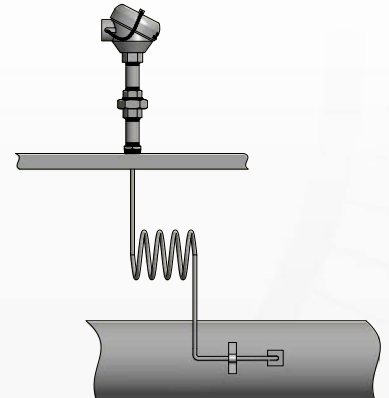


Flexible



Junction Box

WELD PADS



THERMOWELLS



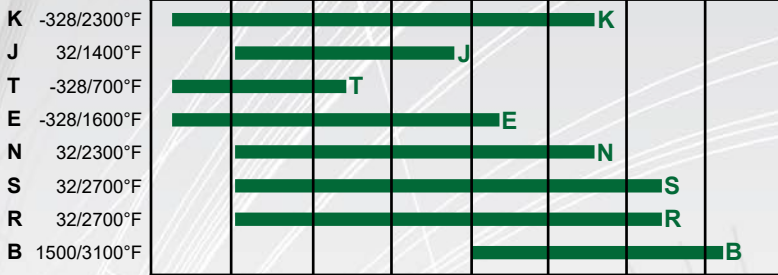
Sample Probe

- Full Penetration Welding
- Material Traceability
- Hydrostatic Testing
- Wake Frequency Calculation



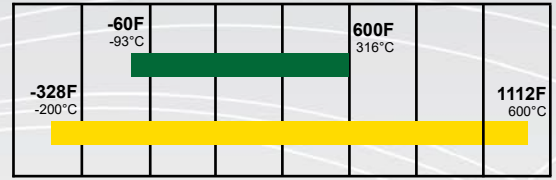
THERMOCOUPLE TEMPERATURE LIMITS (TC GRADE WIRE)

-460°F 0°F 500°F 1000°F 1500°F 2000°F 2500°F 3000°F 3500°F
 -273°C -18°C 260°C 538°C 816°C 1093°C 1371°C 1649°C 1927°C




RTD TEMPERATURE LIMITS

-400°F -200°F 0°F 200°F 400°F 600°F 800°F 1000°F 1200°F
 -240°C -129°C -18°C 93°C 204°C 316°C 427°C 538°C 649°C



Standard RTD Range ■ REOTEMP Extended Temp ■

THERMOCOUPLE & RTD ACCURACIES

	Type K	Type J	Type T	Type E	Type N	Type S	Type R	Type B	RTD B (0.12%)	RTD A (0.06%)	 Hi-Accuracy™ Looking for better accuracy? RTDs Up to 5x more accurate than Class B RTDs with the Hi-Accuracy™ option. Thermocouples Up to 2x more accurate with the Special Limits of Error option.
-328°F	-	-	-	-	-	-	-	-	± 2.34°F*	± 0.99°F*	
-148°F	-	-	-	-	-	-	-	-	± 1.44°F*	± 0.63°F*	
32°F	± 3.96°F	± 3.96°F	± 1.8°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	-	± 0.54°F	± 0.27°F	
392°F	± 3.96°F	± 3.96°F	± 2.7°F	± 3.06°F	± 3.96°F	± 2.7°F	± 2.7°F	-	± 2.34°F	± 0.99°F	
752°F	± 5.4°F	± 5.4°F	-	± 3.6°F	± 5.4°F	± 2.7°F	± 2.7°F	-	± 4.14°F	± 1.71°F*	
1112°F	± 8.1°F	± 8.1°F	-	± 5.4°F	± 8.1°F	± 2.7°F	± 2.7°F	-	± 5.94°F*	± 2.43°F*	
1472°F	± 10.8°F	-	-	± 7.2°F	± 10.8°F	± 3.6°F	± 3.6°F	-	-	-	
1832°F	± 13.5°F	-	-	-	± 13.5°F	± 4.5°F	± 4.5°F	± 9°F	-	-	
2192°F	± 16.2°F	-	-	-	± 16.2°F	± 5.4°F	± 5.4°F	± 10.8°F	-	-	
2552°F	-	-	-	-	-	± 6.3°F	± 6.3°F	± 12.6°F	-	-	
2912°F	-	-	-	-	-	-	-	± 14.4°F	-	-	

Note: The accuracy of a thermocouple depends on many factors including but not limited to electrical interference and the purity of the metals used. Thermocouples are supplied to meet the tolerance specified for temperature above 32°F. Accuracies are estimates given at fixed points, they do not apply to temperature ranges and are intended only as examples to give a general idea of accuracies. Consult REOTEMP if a specific accuracy is needed at a temperature not listed in the above table.

*REOTEMP extended temperature RTDs.

TEMP. LIMITS OF WIRE JACKETS

Jacket	Temp. Limit
PVC	221°F
Teflon	400°F
Fiberglass	900°F

THERMOCOUPLE WIRE COLOR CODES (U.S.A. ANSI)

Thermocouple Grade	Extension Grade	Plug/Jack	Thermocouple Grade	Extension Grade	Plug/Jack
K	Brown (Yellow/Red)	Yellow	N	Brown (Orange/Red)	Orange
J	Brown (White/Red)	Black	S	None Established	Green (Black/Red)
T	Brown (Blue/Red)	Blue	R	None Established	Green (Black/Red)
E	Brown (Purple/Red)	Purple	B	None Established	Grey (Grey/Red)



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