

REOTEMP



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, and NEMA 4X.



A transmitter can be added inside the head with HART or 4-20mA available.

HART
COMMUNICATION PROTOCOL



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.

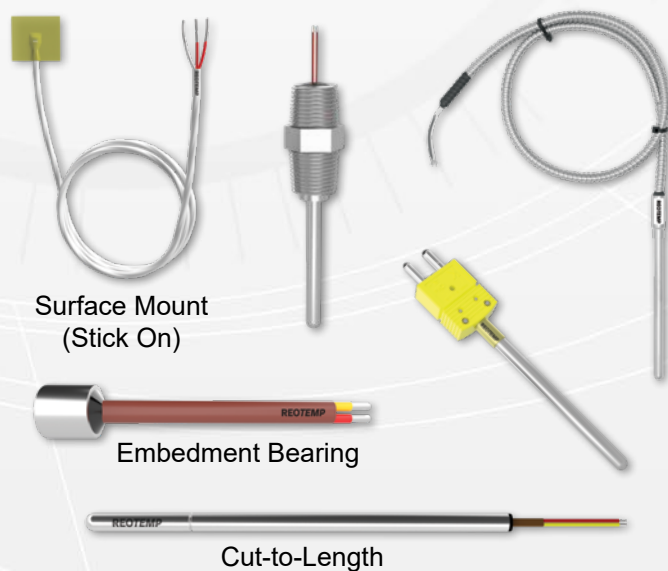


Hi-Accuracy™ is an optional feature on many of our RTD sensors. Reotemp uses high accuracy fixed point calibration cells to determine precise coefficients for the sensor you purchase. You will later input these values into your transmitter. Once the precision coefficients are entered, your sensor will be up to 5 times more accurate!

HANDHELD PROBES



STEM ASSEMBLIES 5-7 DAYS



MODEL W TRANSMITTER



RTD or TC Input,
Analog Output

High Definition Local
Operator Interface
(LOI) with 3 Optical
Buttons

Selectable Red or White
Backlight, Backlight Flashes
Red to Indicate Errors

Ex d Explosion Proof / Flame
Proof Aluminum Head



HART 7 Functionality with
HART 5 Compatibility



RAILCAR THERMOMETER

Reotemp's Railcar Temperature Probes allow railcar terminals to measure the temperature of incoming and outgoing crude oil, corn syrup and other tanker fluids.



Temperature sensor
attaches to railcar with
a standard threaded
connection.

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.



DIGITAL THERMOMETERS 5-7 DAYS



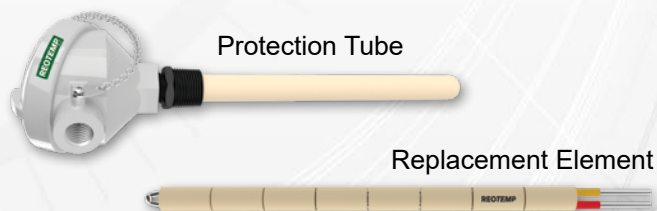
5 Year Battery Life

4-20mA Output Available
(Loop Powered)

-328°F to 1112°F
(-200°C to 600°C)

4-20mA
Output
Available

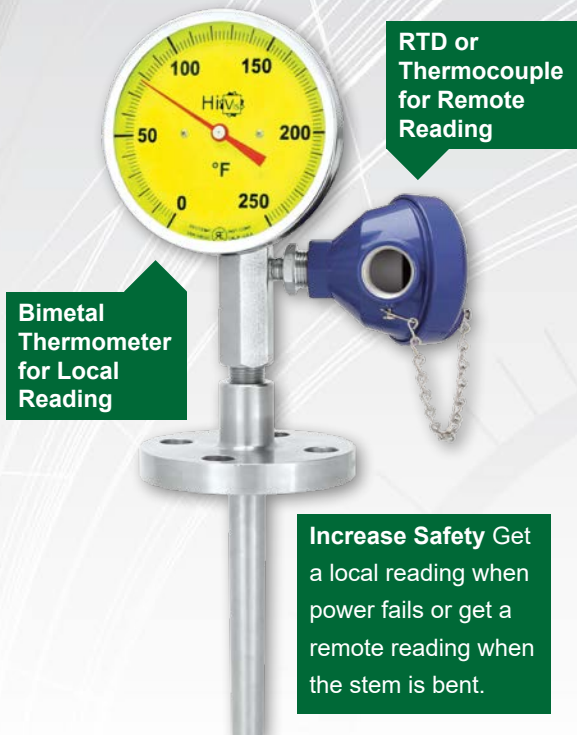
PROTECTION TUBES



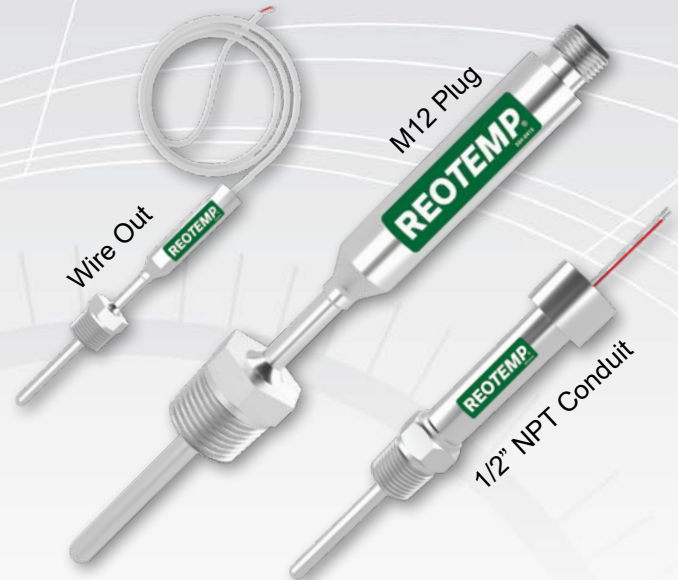
Material	Type	Max Temp
Carbon Steel	Metal	700°F
304SS	Metal	1,650°F
316SS	Metal	1,650°F
Inconel 600	Metal	2,150°F
Mullite	Ceramic	2,700°F
Hexoloy®	Ceramic	3,000°F
Alumina	Ceramic	3,400°F

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

DMT 5-7 DAYS

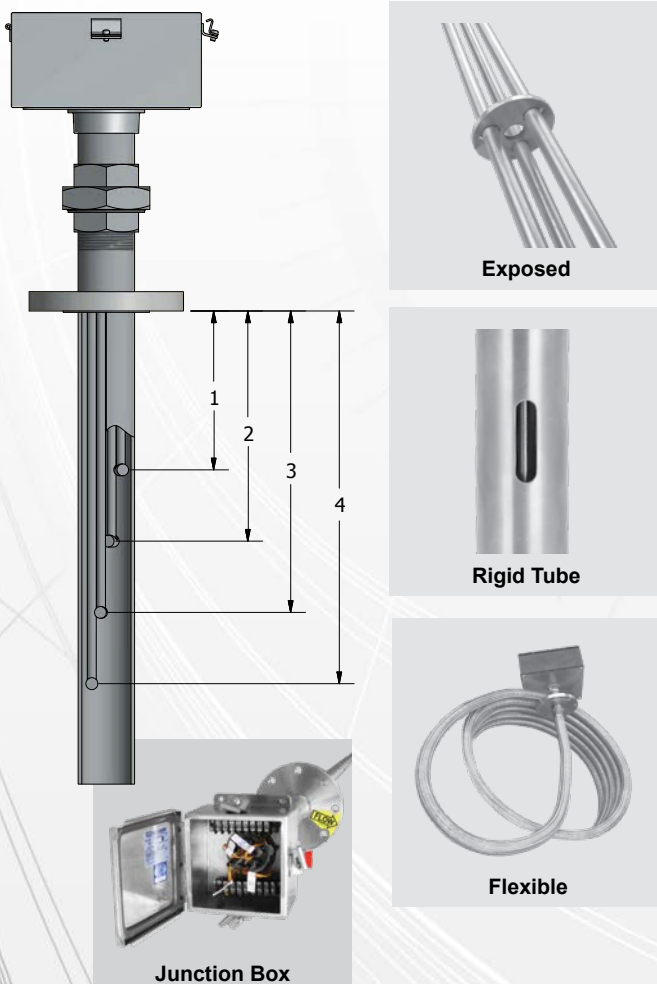


SLIMLINE™ TRANSMITTERS

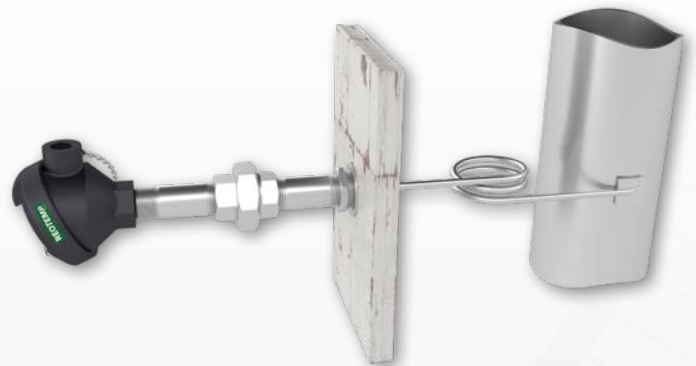


- Minimal Installation Space Required
- Rugged, Vibration & Impact Resistant Transmitters
- Hermetically Sealed (NEMA 7, IP67)

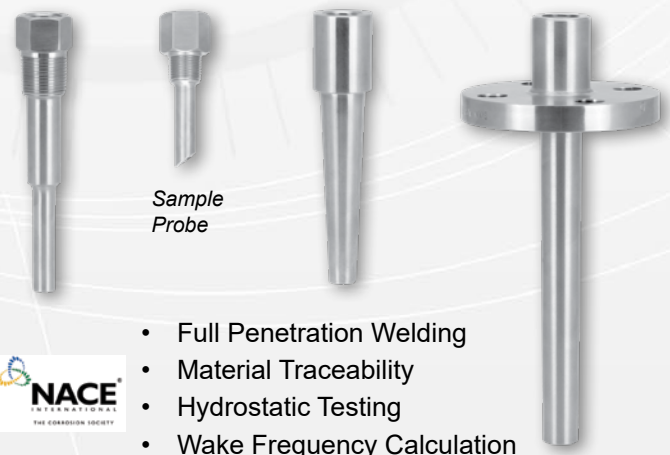
MULTIPOINT SENSORS



WELD PADS



THERMOWELLS



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




THERMOCOUPLE TEMPERATURE OPERATING RANGES

	-400°F -240°C	0°F -18°C	500°F 260°C	1000°F 538°C	1500°F 816°C	2000°F 1093°C	2500°F 1371°C	3000°F 1649°C	3500°F 1927°C
K	-328/2300°F								K
J	32/1400°F								J
T	-328/700°F								T
E	-328/1600°F								E
N	32/2300°F								N
S	32/2700°F								S
R	32/2700°F								R
B	1600/3100°F								B

RTD TEMPERATURE LIMITS

	-400°F -240°C	-200°F -129°C	0°F -18°C	200°F 93°C	400°F 204°C	600°F 316°C	800°F 427°C	1000°F 538°C	1200°F 649°C
-328°F -200°C									
400°F 204°C									
1112°F 600°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 Class B	RTD Class A	 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	± 2.34°F	
-148°F	*	—	*	*	—	—	—	—	± 1.44°F	± 1.44°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	± 4.14°F	
1112°F	± 8.1°F	± 8.1°F	—	± 5.4°F	± 8.1°F	± 2.7°F	± 2.7°F	—	± 5.94°F	± 5.94°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	—	—	

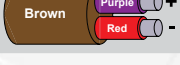
Note: The accuracies in the above table are estimates given at fixed points, they do not apply to temperature ranges and are intended only as examples to give a general idea of what can be expected. Consult Reotemp if a specific accuracy is required or to confirm accuracies at any points not listed in the above table.

*Thermocouples are normally supplied to meet the tolerances specified in the table for temperatures above 32°F. The same materials, however, may not fall within the tolerances for temperatures below 32°F. If materials are required to meet the tolerances stated for temperatures below 32°F, contact Reotemp sales.

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		Yellow	N		Orange
J		Black	S		Green
T		Blue	R		Green
E		Purple	B		White

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