

Thermocouple and RTD



Oil & Gas
Refining & Chemical
Power Generation
OEM & Panel Builders

REOTEMP



Head Assembly



Remote Head Assembly



Model W Hart Transmitter



Z-Temp



Stem Assembly with Plug



Stem Assembly with Plain Leads



Stem Assembly with Transition



Ceramic Protection Tube



Metal Protection Tube



MaxLife Silicon Carbide Platinum Thermocouple



Thermowell



Weld Pad (Tube Skin)



Thermocouple Replacement Element



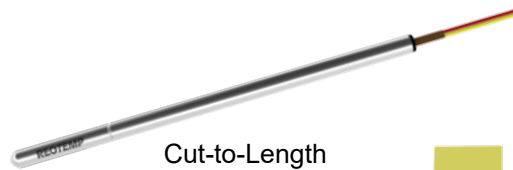
Magnetic Handheld Probe



Stainless Steel Piercing Probe



Pipe Mounting Kit



Cut-to-Length Thermocouple



Embedment Bearing



Surface Mount



Slimline Transmitter



Remote Digital Thermometer



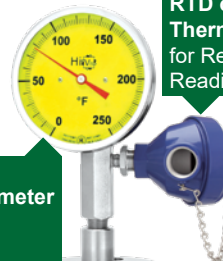
Digital Thermometer



Railcar Thermometer



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.



Multipoint Sensors

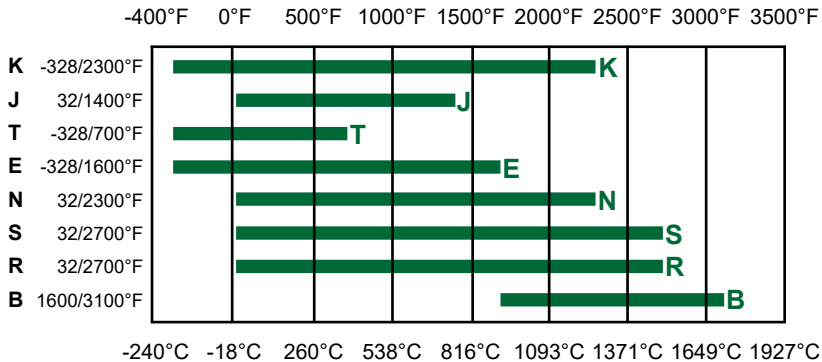
DMT

Work with the Electrical Temperature Experts

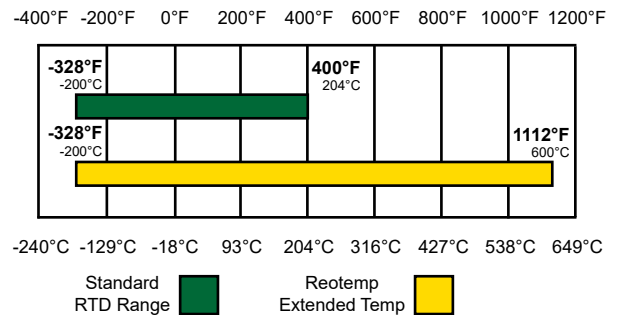
- ▶ Meet with Our Product Engineering Team to Develop Application Specific Solutions
- ▶ Calibration Certificates, Wake Frequency Calculations, Material Test Reports, and PMI
- ▶ Crossover Existing Part Numbers
- ▶ 2D and 3D Drawings

Reference Material


THERMOCOUPLE TEMPERATURE OPERATING RANGES



RTD TEMPERATURE LIMITS



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

Why Reotemp?



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



Manufacturing in the USA Since 1965

Reotemp is a globally recognized American manufacturer of temperature and pressure instrumentation.



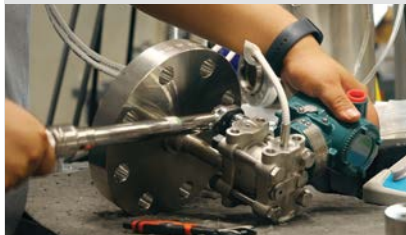
Mechanical Temperature



Mechanical Pressure



Electrical Temperature



Diaphragm Seals



Electrical Pressure



Thermowells

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