

Steel Industry Instrumentation



**Electric Arc Furnace
Basic Oxygen Furnace
Blast Furnace
Melt Shop
Heat Treating
Rolling Mill
Casting**

REOTEMP

High Temperature Thermocouples

Designed to Maximize Thermocouple Lifespan

For nearly six decades, Reotemp Instruments has been at the forefront of precision temperature measurement. Our commitment to excellence, coupled with our 'Made in the USA' pride, has established us as a trusted partner for steel manufacturers. In the unforgiving world of steel production, where extreme temperatures and harsh conditions are the norm, Reotemp's thermocouples have consistently risen to the challenge, providing the accuracy, reliability, and durability that the industry demands.

MaxLife™ Silicon Carbide Platinum Thermocouple

Gasket and Carbon Steel Flange
Easy Installation on Site

Cast Iron Head and Terminal Block
Convenient Connection to Your Control System

Type S Thermocouple
High Purity Platinum and Rhodium.
Measures Up to 2,700°F

Secondary Mullite Protection Tube
Low Thermal Expansion and High Mechanical Strength. Reduces Wear & Extends Life of Thermocouple



Extreme Care/Ultra Durable Packaging

Third Layer of Protection
Ultra-Tough Silicon Carbide Shield.
Chemically Inert with Excellent Thermal Shock and Protection Against Corrosive Gases and Debris

Applications
Furnaces (EAF/BOF)
Single & Dual Roof
Rolling Mills

Temperature Limits

Mullite	2700°F
Hexoloy	3000°F
Alumina	3400°F
Silicon Carbide	2730°F

Thermocouple with Plugs

Protective Boot to Keep out Moisture

Custom Bend for Placement Below Heat Shield

High Temp Male Plug

Compression Bracket Loose on Stem

Applications
Electric Arc Furnace
EAF Bottom Anode
EAF Bottom Electrode
Ladle Wall

Bayonet Cap with Load Spring

Load Spring

Applications
Caster Molds

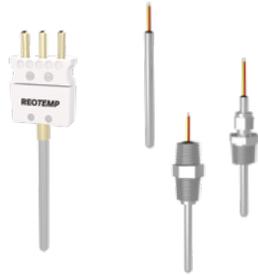
Products

Ceramic Tube Assembly



Mullite, Alumina, Silicon Carbide, Hexaloy, etc.
Type J, K, T, E, R, S, N, B
High Temperature Applications

Custom Stem Assemblies



Plug Type, Wire Out, Custom Bends
Type J, K, T, E
Quick Connection and Disconnection

Head Assemblies



Thermocouple or RTD
4-20mA or Terminal Block
Many Heads, Process Connections, and Stem Types

Temperature Transmitter



HART 4-20mA Output
Digital Display with Optical Push Buttons
Explosion Proof: FM, CSA, ATEX, IEC, IECEx

High Temperature Calibration



Up to 2,192°F (1,200°C)
Certificates of Calibration

Field Cuttable Sensors



Fast Temporary Replacements
Single or Dual: Type J, K, T, E
Order Your Max Length and Keep on Your Shelf

Weld Pad



Non-Invasive Surface Temperature
Type J, K, T, E
Heat Shields, Expansion Loops, Bends

Thermowells



Material: A Multitude of Materials Available
Machined from Solid Stock
Styles: Threaded, Flanged and Weld-in

Pressure Transmitters



4-20mA or VDC Output Reading
Accuracy: 0.25%
Vacuum, Compound, Pressure to 10,000psi

Process Gauge Series PT45



Accuracy: $\pm 0.5\%$
Dial Size: 4.5"
Wetted Material: 316SS
Case: Phenolic

MS8 Process Seal Gauge



All-Welded Diaphragm Seal with Integral Gauge
No Gasket, Leak and Tamper Resistance
Available in 316L, Monel, Hastelloy, and Tantalum Diaphragm

Diaphragm Seals



Diaphragm: 316SS, Hast C-276, Tantalum, Monel, Teflon, Viton, or Others
Threaded, Flanged, Flow-Thru

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.



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



Fast Standard Lead Times



Expedites Available

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