



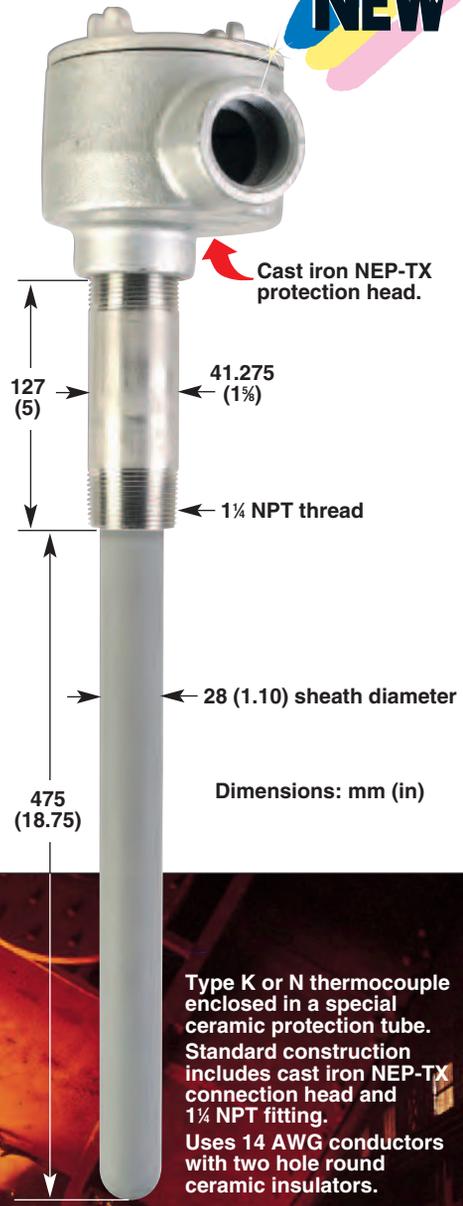
Molten Metal Ceramic Sheath Thermocouple

NEP-TX Series
\$875
 All Models

- ✔ Up to 1250°C (2282°F) Temperature Rating
- ✔ For Use in Molten Non-Ferrous Metals
- ✔ Connection Head with Terminal Block
- ✔ Custom Probe Lengths Available
- ✔ Available in Dual Element
- ✔ High Temperature Thermal Shock Resistance
- ✔ Corrosion Resistance
- ✔ 1¼ NPT Mounting Thread Standard

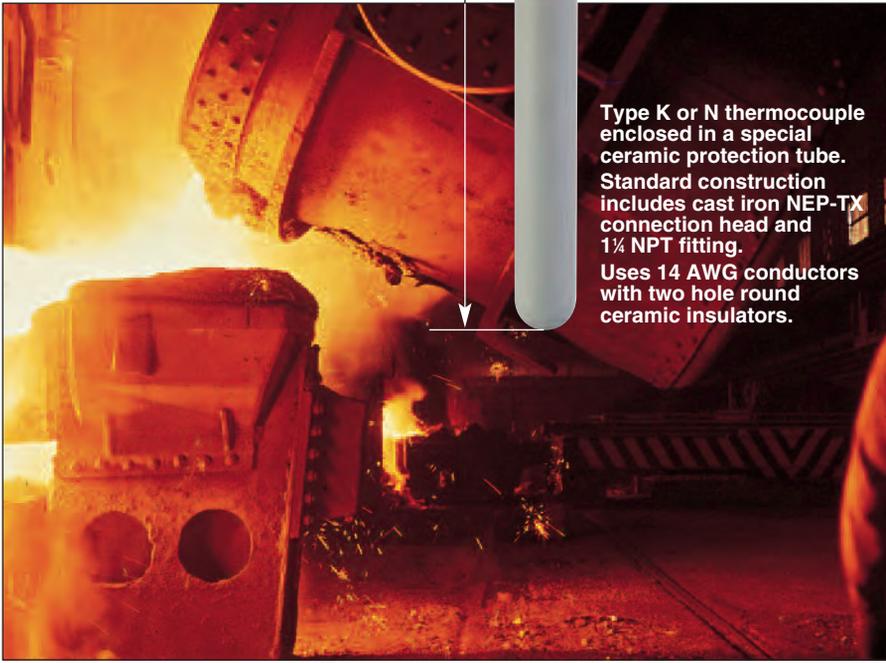
OMEGATITE 650 is uniquely qualified for non-ferrous molten metal applications and high wear or high impact environments up to 1250°C (2282°F). OMEGATITE 650 is non-wetting for most non-ferrous metals. It is gas tight, chemically inert, resistant to corrosion and metal attack, and features high strength, hardness, and thermal shock resistance.

OMEGATITE 650 thermocouple sheaths are used extensively for continuous measurements in nonferrous metals. In molten aluminum, OMEGATITE 650 is thermally shock resistant, non-wetting, does not contaminate the melt, provides continuous, reliable temperature measurement, and is resistant to degradation even in aggressive aluminum lithium alloys.



OMEGATITE® 650 is the ceramic sheath which is an alloy of silicon nitride and aluminum oxide. This superior refractory material has the combined properties of silicon nitride (high strength, hardness, fracture toughness, and low thermal expansion) and aluminum oxide (corrosion resistance, chemically inert, high temperature capabilities, and oxidation resistance). Not recommended for caustic solutions and hydrofluoric acid.

Most refractory products can be used only in high temperature applications where one or two of the following properties are required: thermal shock resistant, mechanical strength, corrosion resistance, abrasion resistance or electrical insulation. OMEGATITE 650 combines all these properties in one refractory material. Preheating of the process is not necessary.



Type K or N thermocouple enclosed in a special ceramic protection tube. Standard construction includes cast iron NEP-TX connection head and 1¼ NPT fitting. Uses 14 AWG conductors with two hole round ceramic insulators.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)					
Model No.	Price	Thermocouple Calibration	Length mm (in)	Probe Dia. mm (in)	Price Per Add'l 150 mm (6")
NEP-TX-K-PTRS-1628-475	\$875	K	475 (18.75)	28 (1.10)	\$125
NEP-TX-N-PTRS-1628-475	875	N			

Note: Ceramic tube packaged separately to avoid breakage during shipping. Shipped unassembled.
 To order in longer length, change “-475” to length in mm. For dual configuration, add suffix “-DUAL” to model number and \$50 to price.
Ordering Example: NEP-TX-K-PTRS-1628-625, Type K thermocouple with 625 mm (24.61”) long ceramic sheath for molten metal, \$1000.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
Stamford, CT.

CANADA

www.omega.ca
Laval(Quebec)
1-800-TC-OMEGA

GERMANY

www.omega.de
Deckenpfronn, Germany
0800-8266342

UNITED KINGDOM

www.omega.co.uk
Manchester, England
0800-488-488

FRANCE

www.omega.fr
Guyancourt, France
088-466-342

CZECH REPUBLIC

www.omegaeng.cz
Karviná, Czech Republic
596-311-899

BENELUX

www.omega.nl
Amstelveen, NL
0800-099-33-44



More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters