

Quick Reference Guide for High Temperature Measurement

Super OMEGACLAD® XL Probes

These sheathed thermocouple probes have the highest temperature stability ratings for type K and type N. Virtually any sheathed probe can be made with XL and achieve 1335°C (2440°F).

See Page A-38



From \$26

Platinum Thermocouples with Ceramic Protection Tube and Cast Iron Head

From \$133

Maximum Temperature 1650°C (3000°F)
Select between type R, S or B thermocouples enclosed in a high purity alumina protection tube and terminated with a terminal block inside a protective cast iron head. Various lengths available. Applications include high temperature ovens, furnaces and smoke stacks. See page A-105



XCIB Thermocouple Probes

Maximum Temperature: 980°C (1800°F) continuous, 1095°C (2000°F) short term
Flexible, abrasion resistant inconel overbraided, ceramic insulated thermocouple probes. Choose between five tip configurations and four cold end configurations. Ideal for furnace and oven profiling. See page A-126



Ceramic Protection Tubes

From \$14

For OMEGATITE® 450 or 300 see page A-107
For Metric sizes and molten metal applications, see OMEGATITE® 650 units in Late Breaking Product section near end of handbook.
See Table of Contents page for location.



OMEGASCOPE® Pyrometers

OS523/534 Series Maximum Temperature: 2480°C (4500°F)
Non-contact temperature sensors enable measurement, monitoring and recording of very high temperatures. Choose from a variety of hand held or fixed mount sensors in different temperature ranges. Laser or scope Sighting. See Page J-13



U.S. and Foreign Patents

High Temperature Connectors

From \$12/ pair

Maximum Temperature: 650°C (1200°F)
Ceramic, compensated thermocouple connectors in standard and miniature sizes. Available with either permanent or removable ANSI color code dot on white ceramic, or fully glazed in ANSI color codes. See page G-28, G-29



Alumina Ceramic

High Temperature Nextel Ceramic Sleeving

From \$1/ foot

Maximum Temperature: 1426°C (2600°F) continuous
Braided, low thermal conductivity, dimensionally stable Nextel 312, 440
Contains no organic, glass or metal inserts. Not attacked by most common metals (except molten copper and tin). See Page A-112



High Temperature Foundry and Surface Probes

From \$115

Maximum Temperature: 1260°C (2300°F) for foundry probe
Complete probes with aluminum handle, lead wire and connector.
Two prong tip design of foundry probe penetrates surface slag to measure true temperatures of metal surfaces.
Surface probe features a spring loaded tip for maximum surface area contact. See page A-98



HHM2, Benchtop meter (\$249) sold separately. See section L.

XC Thermocouple Probes

From \$17

Maximum Temperature: 1204°C (2200°F)
Flexible, Nextel insulated thermocouple elements. Various lengths and AWG sizes available. Typically used with thermowell or protection tube. See page A-18



Exotic High Temperature Probes

From \$100

Temperatures up to 2300°C (4200°F)
Metal sheathed probes for thermocouple types R, S, B and C with a choice of lengths, diameters, and cold end terminations. Sheath materials include Tantalum, Molybdenum, Platinum-Rhodium and Inconel 600. See page A-45





UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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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