

Handheld Infrared Thermocouple

High Performance—Wide Range

OS-88000-K-1200

\$199



- ✓ -73 to 650°C (-100 to 1200°F)
- ✓ Durable Construction
- ✓ Plugs Into Any Type K Thermometer
- ✓ Fast 80 msec Response Time
- ✓ Hermetically Sealed Optics

Applications

- ✓ Non-Contact Scanning
- ✓ Quick Verification of Control System Temperature
- ✓ Ensuring Products Meet Temperature Specifications

OMEGA introduces a new level in the state of the art for temperature measurement. The OS-88000 handheld infrared probe provides low cost, non-contact measurements of temperatures from -73 to 650°C (-100 to 1200°F) that are independent of emissivity over the range 0.8 to 1.0. As with thermocouples, a chart of either millivolt output or equivalent temperatures as read on a typical thermocouple meter is provided for the full temperature range. In addition, a calibration adjustment screw allows setting of the OS-88000 for correct point reading of temperatures between -17 to 650°C (0 to 1200°F).

The probe is available in a Type K thermocouple output, with an impedance of 3 kΩ, a repeatability of better than ±1% of the readings, an ambient temperature operating range of -17 to 100°C (0 to 212°F), and a field of view of 60°.



The OS-88000-K-1200 is perfect for precise spot measurement.

See Section P for a complete selection of meters and controllers that interface with OMEGA's Infrared thermocouples.

Use your handheld IR thermocouples with the SUPERMETER® HHM290 Pyrometer, \$245, shown on page J-19.

Specifications

Temperature Range:

-73 to 650°C (-100 to 1200°F)

Automatic Emissivity Compensation System (AECS):

±1% of difference between target temperature and sensor temperature when touching surfaces of 0.8 emissivity or higher.

Accuracy:

±2% or ±1°C (2°F) + 1 digit, including AECS over temperature range

Repeatability: ±1% of reading

Time Constant: 80 msec

Field of View: 60 degrees

Minimum Spot Size: 0.45" (1.14 cm)

Spectral Response: 6.5 to 14 microns

Pot Adjustments Sensitivity:

12°C per turn @ 100°C

(22°F per turn @ 212°F)

CAUTION! – This product is not intended for medical use or use on humans

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
OS-88000-K-1200	\$199	Infrared thermocouple, Type K

Ordering Example: OS-88000-K-1200, infrared thermocouple, \$199.



UNITED STATES

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

CANADA

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

GERMANY

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0800-8266342

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FRANCE

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Amstelveen, NL
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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