

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-7.

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.

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More than 100,000 Products Available!

• Temperature

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• Flow and Level

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• pH and Conductivity

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• Data Acquisition

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• 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