

# Economical Infrared Temperature Sensor

## Features USB Interface and Free Charting and Logging Software

IR-USB



Optional\*

- ✓ Connects Directly to a USB Port on Your Computer
- ✓ Free Software Converts Your PC into a Temperature Meter, Data Logger or Chart Recorder
- ✓ -18 to 538°C (0 to 1000°F) Measurement Range
- ✓ Adjustable Emissivity from 0.10 to 1.0

**Thermocouple Probe with USB Connection Available. See Model TJ-USB at [omega.com](http://omega.com)**



Laptop not included.

IR-USB

IR sensor head.

**Accuracy @ 22°C (72°F) Ambient Temperature and Emissivity of 0.95 or Greater:** ±2% rdg or 2.2°C (4°F), whichever is greater  
**Optical Field of View:** 6:1 (distance/spot size)  
**Repeatability:** ±1% rdg  
**Spectral Response:** 5 to 14 microns  
**Response Time:** 100 ms (0 to 63% of final value)  
**Emissivity Range:** 0.1 to 1.00, adjustable  
**Operating Temperature**  
**Sensor Head:** 0 to 70°C (32 to 158°F)  
**Sensor Head (-HT Model):** 0 to 85°C (32 to 185°F)  
**Sensor Head with OS100-WC (Water Cooling Jacket):** 0 to 200°C (32 to 392°F)  
**Operating Relative Humidity:** Less than 95% RH, non-condensing  
**Water Flow Rate (OS100-WC):** 0.25 GPM, room temperature

**Thermal Shock:** ~30 minutes for 25°C (77°F) abrupt ambient temperature change  
**Warm-Up Period:** 3 minutes  
**Air Flow Rate (OS100-AP):** 1 CFM (0.5 L/s) (1 x 2.5")  
**Laser Sight Accessory (OS100-LS)**  
**Wavelength (Color):** 630 to 670 nm (red)

The IR-USB infrared temperature sensor provides a reliable and economical method for most non-contact temperature monitoring applications. Each unit is factory calibrated to provide excellent sensitivity, fast response, and stability. The unit features a IR sensor/signal conditioner installation with a direct USB connection. The free user software converts your PC into a temperature meter, chart recorder or data logger. A mounting kit is also available that allows for wall or duct mounting.

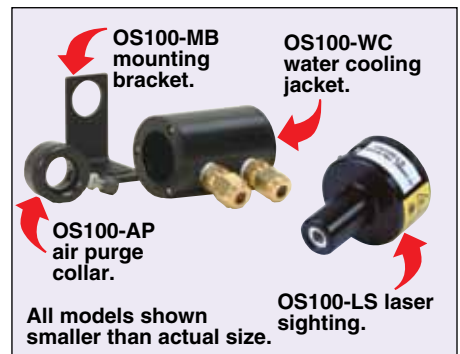
### Specifications

**PC Interface:** USB

**USB Cable:** Integral to sensor, 2 m (6') shielded Type A plug

**Software (Included):** Requires Windows® 2000, XP, Vista or Windows 7 operating system

**Temperature Range:** -18 to 538°C (0 to 1000°F)



All models shown smaller than actual size.

**To Order Visit [omega.com/ir-usb](http://omega.com/ir-usb) for Pricing and Details**

Model No.	Description
IR-USB	Infrared temperature sensor with USB connection

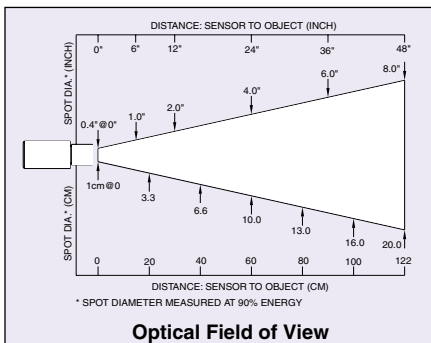
### Accessories

Model No.	Description
CAL-3-IR*	NIST traceable calibration with 3 data points
OS100-MB	Mounting bracket
OS100-AP	Air purge collar
OS100-WC	Water cool jacket, up to 200°C (392°F)
OS100-LS	Laser sighting accessory

Comes complete with an integral shielded 2 m (6') USB cable with Type A connector, software, mounting nut and operator's manual.

Add "-HT" for high temperature sensor head for additional cost.

**Ordering Example:** IR-USB Infrared temperature sensor and OS100-MB mounting bracket.



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