

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 TRH Central Software for Download from TRDEX 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

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)

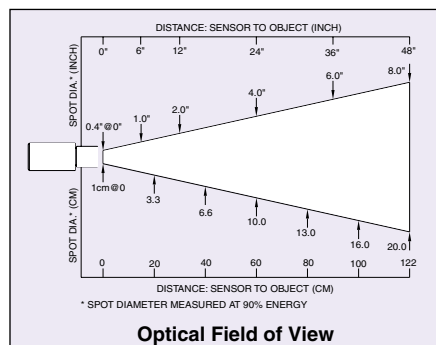
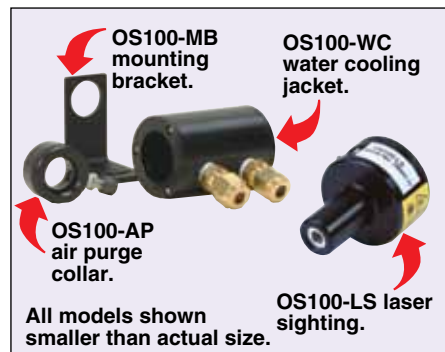
Thermocouple Probe with USB Connection Available. See Model TJ-USB at



IR-USB

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)
Maximum Laser Power Output: <1 mW



To Order

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

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

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