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OS86 Series

Non-Contact Infrared Thermometer with Precision Laser Sighting

1 YEAR WARRANTY

MADE IN USA

YEAR 2000 COMPLIANT

CE



- **Wide Temperature Span: Choose Either -20 to 900°C/ -4 to 1652°F Span With 1.0° Resolution or -50 to 500°C/-58 to 932°F Span, With 0.1°C Resolution**
- **Bright Laser Spot Pinpoints Measurement Target on Axis**
- **1 to 70 Readings Stored Internally for Future Review**
- **Average, Minimum and Maximum Reading**
- **Field Adjustable "High" and "Low", Audible and Visual Alarms**
- **Up to 20 Hours of Operation from Rechargeable Batteries**
- **Digital and Analog Outputs**
- **Lightweight, One-Hand Operation for Safety and Minimum Fatigue**

The handheld OS86 measures temperature quickly and from a distance – without contact. Just aim and pull the trigger. A standard laser–aiming feature can pinpoint the measured spot even in brightly lit areas.

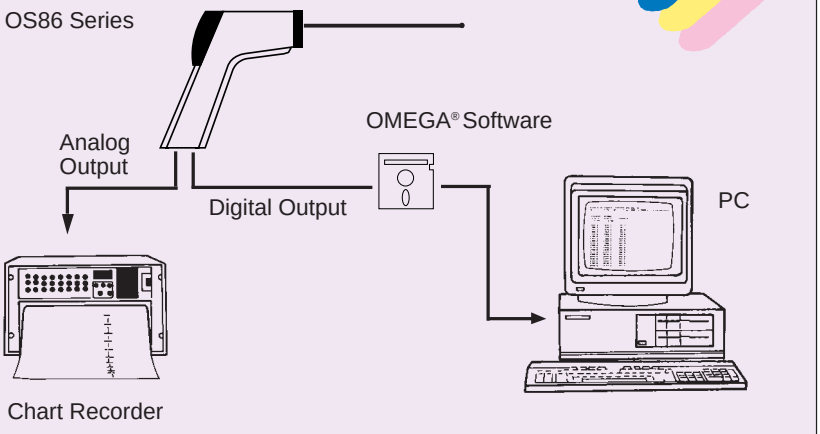
The OMEGA® OS86 can be an invaluable detection tool in your preventive maintenance program. It can help prevent a variety of temperature-related equipment or process malfunctions before serious damage can occur, such as bearing failures, electrical power distribution and switching faults, blocked steam traps, deteriorating insulation, depleted refrigeration media, over-or-under-heating of moving process materials, etc.

The OS86 detects the infrared energy that is radiated from the surfaces of all materials – even very cold materials – and converts the energy into either a °C or °F digital display on the instrument.

Specifications

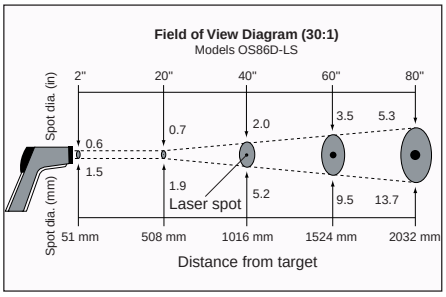
Temperature Ranges: either -50 to 500°C/-58 to 932°F, with 0.1°C/°F resolution or -20 to 900°C/-4 to 1652°F with 0.1°C/1.0°F resolution
Accuracy: ±0.8% of reading or 1°C (2°F), whichever is greater, or 2°C (4°F) for targets below 0°C (32°F)*
Repeatability: ±0.25 of reading or 0.3°C (1°F), whichever is greater
Sighting Methods: Laser defines center of measurement area
Laser Output: Meets ANSI Class II
Spectral Response: 8-14 µm
Field of View: Either 30:1 or 50:1 or 6.25:1 distance-to-spot-diameter ratio – see optical diagrams
Focus Distance:
1.3 cm (.5") to 1.5 m (60")
Working Distance:
13 mm to 10 m (0.5" to 33')
Temperature Mode: Current temperature; average temperature of last 10 readings; maximum/minimum temperature; temperature unit selection (°C or °F); memory and playback allow scrolling of memorized temperature and emissivity
Temperature Display:
LCD, four-digit with °C or °F
Speed of Response:
500 milliseconds for 95% of final reading
Emissivity:
Adjustable from 0.10 to 1.00 in 0.01 steps
Controls: Power ON/OFF; emissivity UP/DOWN, with fast scroll after two seconds; last emissivity setting is memorized; laser ON/OFF is momentary switch triggered with mid-finger; HOLD switch to hold final reading
Outputs: Digital RS-232C 9600 baud
Software: 3½" diskette for data collection and transfer to Lotus 1-2-3 or equivalent for Windows 95 or NT
Data Collection: 70 readings can be stored on command with playback capability. Real-time data only with analog output.
Alarm:
High/low visual and audible alarm
Power Source: 4 packaged Nickel cadmium rechargeable batteries
AC Adapter: 115 Vac/220 ac to dc NiCad battery
Battery Life: 20 hours with laser off; five hours with laser on

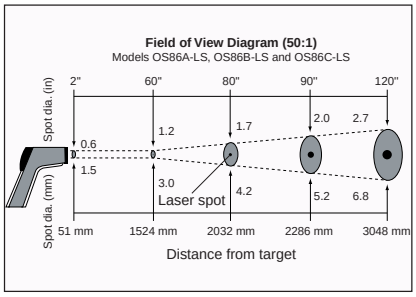
Analog/Digital Cable:
Each 1.5 meters long (60") RS-232
Ambient Temperature Range:
Operating, 0 to 50°C;
storage, -40 to 60°C
Humidity:
10-90% RH, non-condensing
Mounting:
¼-20 thread for tripod mount
Housing Material: Plastic ABS
Housing Seal:
Water splash-proof, dust-proof
Dimensions:
46 W x 145 L x 155 mm H
(1.8 x 5.7 x 6.1")
Weight: 390 g (14 oz)

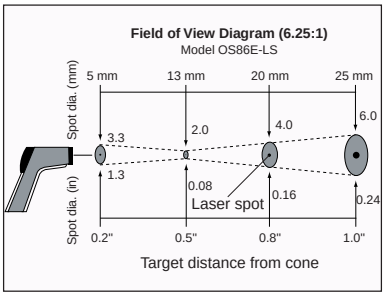


Various methods of gathering and processing data from the OS86 IR thermometer.

**Accuracy is stated for a target with an emissivity of 1.0 and an ambient temperature of 23°C ±5°C, at specified focal distance.*







Accessories

Model Number	Price	Description
OS86-NIST	**$150**	NIST calibration certificate
OS86-POUCH	**25**	Soft protective pouch
OS86-SW	**125**	Software for data transfer to Lotus 1-2-3
OS86-DCAB	**50**	Additional 1.5 meter digital cable
OS86-ACAB	**50**	Additional 1.5 meter analog cable

To Order *(Specify Model Number)*	**High Temperature**			**High Resolution**		
Model Number	**OS86A-LS**	**OS86B-LS**	**OS86C-LS**	**OS86D-LS**	**OS86E-LS**	**OS86F-LS**
Price	**$995**	**$1275**	**$1475**	**$1675**	**$1675**	**$1475**
Temperature Range (field switchable)	-20 to 900°C -4 to 1652°F	-20 to 900°C -4 to 1650°F	-20 to 900°C -4 to 1650°F	-50 to 500°C -58 to 932°F	-50 to 500°C -58 to 932°F	-50 to 500°C -58 to 932°F
Distance to Spot Size Ratio	50:1	50:1	50:1	30:1	6.25:1	30:1
Spot Size Focal Distance	1.2" / 60" 30 mm / 1524 mm	1.2" / 60" 30 mm / 1524 mm	1.2" / 60" 30 mm / 1524 mm	.7" / 20" 18 mm / 508 mm	.08" / 0.5" 2 mm / 13 mm	.08" / 0.5" 2 mm / 13 mm
RS-232 Output & Software	No	Optional	Standard	Standard	Optional	Optional
Analog Output	No	No	1mV/°C	1 mV/°C	No	No

Each unit supplied with 115 Vac 60Hz adaptor or 220Vac 50Hz, digital cable (optional for models OS86B-LS and OS86E-LS), analog output cable (with OS86C-LS and OS86D-LS), software (optional for OS86B-LS, OS86F-LS and OS86F-LS), safety wrist strap and lens cap, instrumentation manual. ***Ordering Example: OS86B-LS****, Laser pyrometer, with* ***OS86-NIST*** *certification, plus* ***OS86-POUCH****, $1275 + $150 + $25 =* ***$1450.***

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• 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

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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

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