

High-Temp, Fast Response, Infrared Thermometer

OS66 Series
\$995
 All Models



Optional

- ✓ 800 to 1500°C (1472 to 2732°F) Range
- ✓ ±1% Accuracy
- ✓ Fast 300 msec Response
- ✓ 50:1 or 75:1 Optics

The OS66 Series of non-contact infrared thermometers extends OMEGA's OS65 Series shown on preceding pages. The difference: OS66 Series is designed for higher temperature applications, with accurate results in the 800 to 1500°C (1472 to 2732°F) range.

The OS66 Series includes an infrared sensing head, signal processor module and detachable 4.6 m (15') interconnecting cable. The OS66 Series works with the same accessories as the OS65 Series.

Specifications

Accuracy: ±1% rdg ±1°C (2°F)

Repeatability: ±0.50% rdg ±1 digit

Spectral Response: 0.85 to 0.95 microns

Emissivity Range: 0.10 to 0.99 in 0.01 steps

Response Time: 300 msec

Field of View: 50:1 or 75:1

Power: 9 to 30 Vdc, 50 mA (120 Vac with optional AC adaptor, model OS65-AC)

Environmental Ratings: NEMA 4 (IEC529, IP66) water tight and dust tight for sensing head and optional NEMA 4 (IP65) electronics enclosure

Ambient Operating Range: Sensing head -18 to 66°C (0 to 150°F), extends to -18 to 177°C (0 to 350°F) with optional cooling; electronics -18 to 49°C (0 to 120°F)

Connection: 4.5 m (15') cable standard; 15 m (50') optional

Lead Wire Resistance (Current Output Models), Ω: (Supply voltage-7/0.02)

Load Current (Voltage Output Models): 10 mA max

Dimensions: Sensing head 13.46 L x 4.14 cm D (5.3 x 1.63"), 1½-20 thread; electronics 13.35 x 9.19 cm (5.25 x 3.62"); optional NEMA 4 (IP65) or NEMA 12 (IP52) enclosure 15.24 x 10.16 x 7.62 cm (6 x 4 x 3")

Weight: Sensing head 0.3 kg (9 oz); electronics only (without enclosure) 0.1 kg (4 oz); electronics mounted in optional NEMA 4 (IP65) enclosure 1.2 kg (2.6 lb)

Optical Table

Ordering Suffix	FOV (Field of View)	Min. Spot Size
-1	50:1	¼" at 15"
-2	75:1	¼" at 18"



OS66-MA1-1, \$995 with optional NEMA 4 (IP65) enclosure, shown smaller than actual size.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Output Type
OS66-R(*)	\$995	R
OS66-S(*)	995	S
OS66-B(*)	995	B
OS66-MV(*)	995	1 mV/deg
OS66-MA1(*)	995	4 to 20 mA
OS66-MA2(*)	995	0 to 20 mA
OS66-V(*)	995	0 to 5 V

OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

* Insert optics code from optical table.

Note: If electronics board is to be mounted in OS65-CC4 card cage, add suffix "-CC" to model number. No additional charge.

OS66 Accessories

(See OS65 Series for add'l accessories)

Model No.	Price	Description
OS66-VW1.3	\$395	Viewing window, 1.3" dia. (8 to 14μ)
OS66-VW.8	275	Viewing window, 0.8" dia. (8 to 14μ)

Note: Use of viewing window requires additional sensor calibration. Consult OMEGA for details.

Additional Options for OS66 Series

Suffix	Price	Description
-RS2 [†]	\$ 75	RS232C digital communications
-RS4 [†]	75	RS485 digital communications
-C50	50	15 m (50') cable [in place of 4.5 m (15') cable]]
-NIST	150	NIST-traceable calibration certificate
-CE	47	CE marked model
-NEMA4	100	NEMA 4 electronics enclosure
-NEMA12	50	NEMA 12 electronics enclosure

[†]Note: Only 1 digital communications option (either RS232C or RS485) can be specified.

Ordering Example: OS66-MV-1-RS2-C50, infrared thermometer with 1 mV/deg output type, 50:1 optics, RS232C communications and 50 ft cable, \$995 + 75 + 50 = \$1120. OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$248), \$995 + 248 = \$1243.



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• 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

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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