

High-Temp, Fast Response, Infrared Thermometer

OS66 Series
\$995
 All Models



- ✓ 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

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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