

High-Temp, Fast Response, Infrared Thermometer

OS66 Series



- 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 maximum
- 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"



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.

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

To Order Visit omega.com/os66 for Pricing and Details

Model No.	Output Type
OS66-R(*)	R
OS66-S(*)	S
OS66-B(*)	B
OS66-MV(*)	1 mV/deg
OS66-MA1(*)	4 to 20 mA
OS66-MA2(*)	0 to 20 mA
OS66-V(*)	0 to 5V

* 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 cost.

OS66 Accessories

(See OS65 Series for additional accessories)

Model No.	Description
OS66-VW1.3	Viewing window, 1.3" diameter (8 to 14μ)
OS66-VW.8	Viewing window, 0.8" diameter (8 to 14μ)

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

Additional Options for OS66 Series

Suffix	Description
-RS2**	RS232C digital communications
-RS4**	RS485 digital communications
-C50	15 m (50') cable [in place of 4.5 m (15') cable]]
-NIST	NIST-traceable calibration certificate
-CE	CE marked model
-NEMA4	NEMA 4 electronics enclosure
-NEMA12	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' cable. OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.