

# Industrial Non-Contact Infrared Thermometer/Transmitter

## With Local Display and Analogue Output



- ✓ Accuracy  $\pm 1\%$  of Reading
- ✓ Models with Temperature Ranges Measuring Up to 1370°C
- ✓ Current, Voltage, or Millivolt Output
- ✓ Laser Sight Optional
- ✓ °C/°F Keypad Selectable
- ✓ Local Backlit LCD Display Standard
- ✓ Dual Display Indicates Current plus Min, Max, Average, or Differential Temperatures on Most Models
- ✓ Visual and Audible High Alarm, Low Alarm (OS552, OS553, OS554)
- ✓ Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps via the Programmable Keypad
- ✓ Fast 250 msec Response Time
- ✓ Complete IP65 System
- ✓ RS232 Communication Available

OMEGACARE<sup>SM</sup> extended warranty programme is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labour, and equivalent loan instrument.

OMEGA's OS550 Series industrial, high-performance, economical thermometer/transmitters offer a wide choice of temperature ranges, optical patterns, or fields of view with three outputs (1 mV/degree, 4 to 20 mA, and 0 to 5 Vdc) to feed directly into panel meters, recorders, temperature/process controllers, data loggers, data acquisition systems, or other process instrumentation.

Since the OS550 Series infrared thermometers do not use chopper motors or vibrator mechanisms, they can be mounted in any position and in hostile environments without suffering any loss in performance.

This rugged design coupled with relatively small dimensions makes these sensors ideally suited for a wide variety of applications.

OS550 Series Starts at  
**£332**



### Specifications

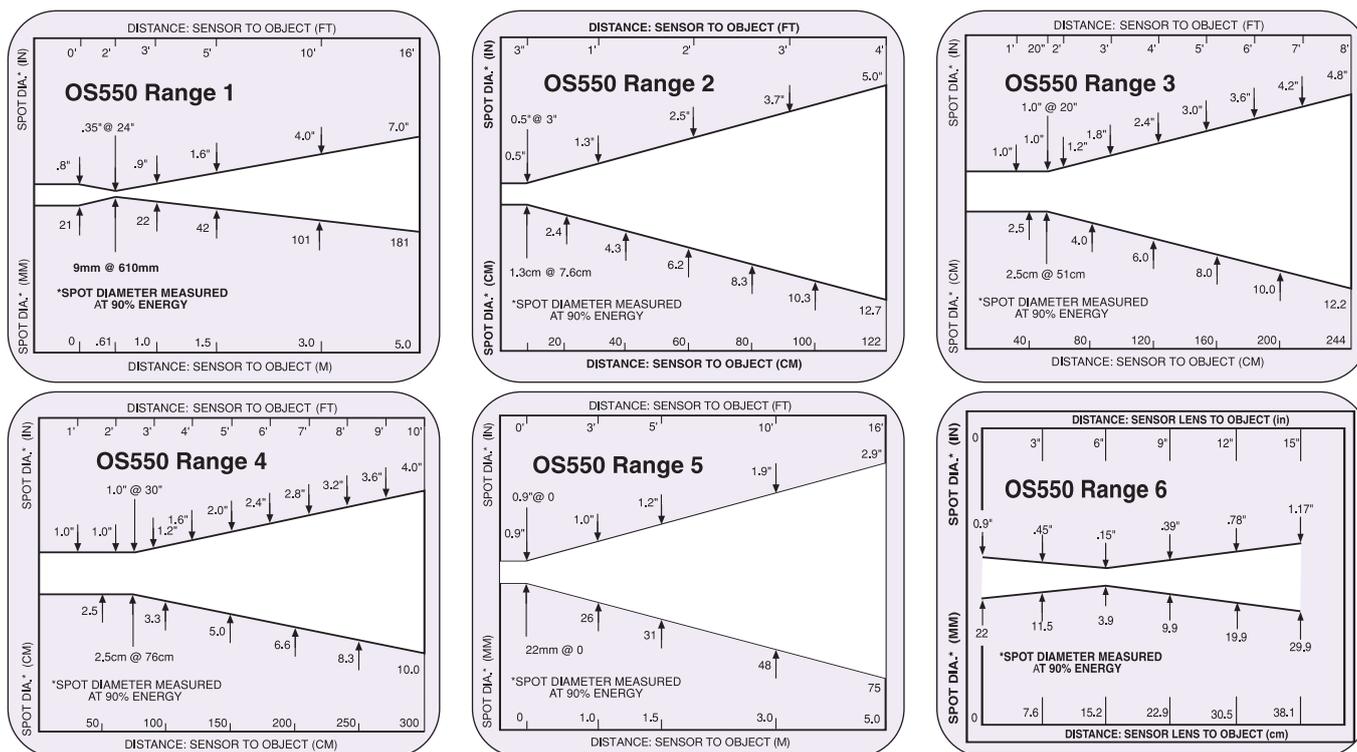
- Accuracy:**  $\pm 1\%$  of reading @ 25°C ambient or 1.7°C, whichever is greater
- Repeatability:**  $\pm 1\%$  rdg  $\pm 1$  digit
- Spectral Response:** 8 to 14 microns
- Emissivity Range:** 0.10 to 1.00
- Field of View (FOV):** See diagrams
- Display:** Backlit LCD
- Transmitter Outputs:** 1 mV/degree, 0 to 5 Vdc, or 4 to 20 mA
- Power:** 7 to 24 Vdc @ 80 mA
- Environmental Ratings:** IP66 water-tight and dust-tight for sensing head and electronics enclosure
- Ambient Operating Range:** Sensing head 0 to 50°C; with OS550-WC 0 to 85°C
- Response Time:** 250 msec; 0 to 63.2%

We make running changes when technical advances allow. Check at time of ordering for additional features.

- Alarms:** Visual and audible
- RS232:** Standard on OS552, OS553, and OS554 models. One-way communication. PC compatible software included.
- Connection:** 4.5 m; head and power cable included
- Dimensions:** Sensing Head: 10.9 x 4.1 cm, 11/2-20 thread  
Electronics: 13.3 x 9.1 cm
- Weight:** Sensing Head: 0.45 kg  
Electronics Mounted in IP66 Enclosure: 1.2 kg



## OS550 Series Optical Field of View Diagrams



   **MOST POPULAR MODELS HIGHLIGHTED!**

### To Order Complete IP66 SYSTEM (Specify Model Number)

Model Number	Price	Output	Temperature Range	RS232	Free PC Software
OS551-MV-(* )	£332	1 mV/deg.	-18 to 400°C	—	—
OS551-MA-(* )	332	4 to 20 mA	-18 to 400°C	—	—
OS551-V1-(* )	332	0 to 5 Vdc	-18 to 400°C	—	—
OS552-MV-(* )	369	1 mV/deg.	-18 to 540°C	Standard	Standard
OS552-MA-(* )	369	4 to 20 mA	-18 to 540°C	Standard	Standard
OS552-V1-(* )	369	0 to 5 Vdc	-18 to 540°C	Standard	Standard
OS553-MV-(* )	436	1 mV/deg.	-18 to 870°C	Standard	Standard
OS553-MA-(* )	436	4 to 20 mA	-18 to 870°C	Standard	Standard
OS553-V1-(* )	436	0 to 5 Vdc	-18 to 870°C	Standard	Standard
OS554-MV-(* )	503	1 mV/deg.	-18 to 1370°C	Standard	Standard
OS554-MA-(* )	503	4 to 20 mA	-18 to 1370°C	Standard	Standard
OS554-V1-(* )	503	0 to 5 Vdc	-18 to 1370°C	Standard	Standard

\* Insert optics code from table below.

Note: Sensor head cable can be extended at the factory at time of purchase to a maximum of 15 m. Add suffix “-(\*)M” to order number and £2.80 per metre over 5 m to price.

Ordering Examples: OS552-MA-2, infrared thermometer with -18 to 540°C range, 4 to 20 mA output and spot size 12.7 mm at 76 mm, £369. OS551-MA-2-11M, OS551 with current output, 12.7 mm at 76 mm FOV,

11 metre sensor head cable, £332 + 16.80 = £448.80.

OCW-3 OMEGACARE<sup>SM</sup> extends standard 2-year warranty to a total of 5 years (£82), £448.80 + 82 = £530.80.

### Optical Table\*

Optical Range Code	Field of View (FOV)
- 1	Spot Size 8.9 @ 609 mm
- 2	Spot Size 12.7 @ 76 mm
- 3	Spot Size 25.4 @ 508 mm
- 4	Spot Size 25.4 @ 762 mm
- 5	Spot Size 25.4 @ 1524 mm
- 6	Spot Size 3.8 @ 152 mm

### Accessories

Model Number	Price	Description
OS550-AP	£43.45	Air purge collar
OS550-WC	130.65	Air/water cooling jacket
OS550-MF	43.55	Mounting frame
OS550-MB	23.45	Right-angle mounting bracket
OS550-MN	10.05	Mounting nut
OS550-LS	130.65	Sighting viewer (laser) (not shown)*
CALIBRATION	90.00	Traceable calibration certificate
PSR-24L-230	40.20	Regulated power supply, 24 Vdc, 400 mA, stripped leads, 230 Vac input
PSU-93-UK	33.00	Unregulated power supply, 16 Vdc, 300 mA max, 230 Vac, UK plug
TX4-100	19.10	Power/output extension wire, 30 m reel

\*One unit suitable for aligning many heads.