OEM Style Industrial Non-Contact Infrared Thermometer/Transmitter with Local Display and Analog Output

OS550A-BB Series Starts at

£298

2 YEAR WARRANTY | CE | EMC SERVICES | OMEGACARE Extended Warranty Program

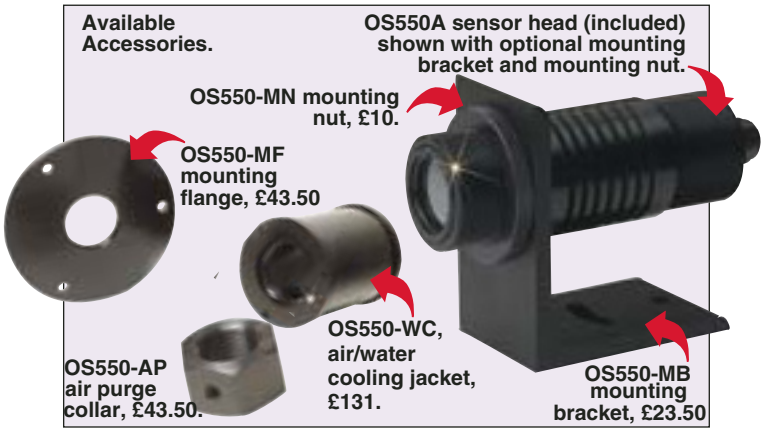
FREE data logging software included with models OS552A, 553A and 554A.

OS552A-MA-1-BB, £332, shown smaller than actual size.

NEW FEATURES!

- Visual and Audible High and Low Alarms with Red LED Indication
- Voltage Alarm Outputs to Drive External Relays
- Fast 100 msec Response Time
- Two-Way RS232 Communications Available
- Wireless RS232 Communication Available

- **Accuracy ±1% of Reading**
- **Models with Temperature Ranges Measuring Up to 1370°C (2500°F)**
- **Current, Voltage, or Millivolt Output**
- **Laser Sighting Optional**
- **°C/°F Keypad Selectable**
- **Local Backlit LCD Display Standard**
- **Dual Display Indicates Current plus Min, Max, Average, or Differential Temperatures on All Models**
- **Emissivity Adjustable from 1.00 to 0.1 in 0.01 Steps via the Programmable Keypad**



OMEGA's OEM style OS550A-BB series industrial, high-performance, economical thermometer/ transmitter offers a wide choice of temperature ranges, optical fields of view and 3 analog outputs (1 mV/ deg, 4 to 20 mA, and 0 to 5 Vdc) to feed directly into panel meters, recorders, PLCs, temperature/ process controllers, data loggers, data acquisition systems, or other process instrumentation.

Since the OS550A-BB 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 OEM design coupled with relatively small dimensions makes these sensors ideally suited for a wide variety of applications.

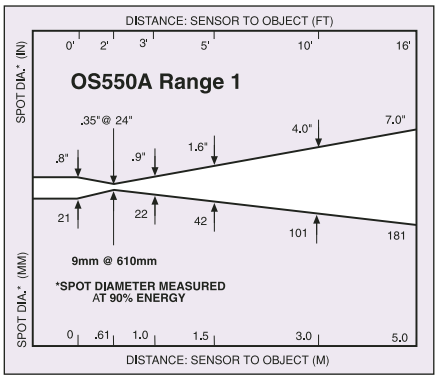
Specifications

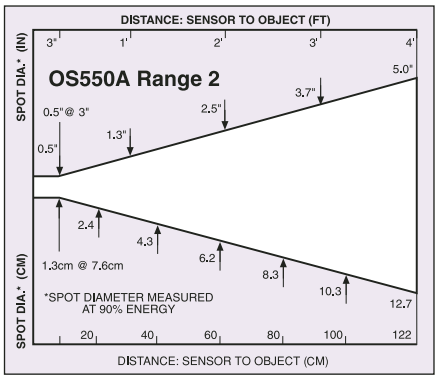
Accuracy: ±1% of reading @ 25°C ambient or 3°F, whichever is greater
Repeatability: ±1% rdg ±1 digit
Spectral Response: 8 to 14 microns
Emissivity Range: 1.00 to 0.1 in 0.01 steps
Field of View (FOV): See diagrams
Display: Backlit LCD
Transmitter Outputs: 1 mV/ degree, 0 to 5 Vdc, or 4 to 20 mA
Power: 8 to 24 Vdc @ 80 mA
Environmental Ratings: NEMA 4 (IP65) Water-tight and dust-tight sensing head
Ambient Operating Range: Sensing head -18 to 85°C (-0.4 to 185°F) with OS550-WC; 0 to 50°C (32 to 122°F) without OS550-WC
RS232: Standard on OS552A, OS553A and OS554A models; two-way communication; PC-compatible software included
Connection: 4.5 m (15') sensor head cable Included
Dimensions:
Sensing Head: 10.9 x 4.1 cm (4.30 x 1.63"), 1½-20 thread
Electronics: 11.8 x 9.1 x 3.8 cm (4.66 x 3.60 x 1.5")
Weight:
Sensing Head: 0.45 kg (12 oz)
Main Electronics: 1.13 kg (40 oz)
Response Time: 100 msec; 0 to 63% of final value

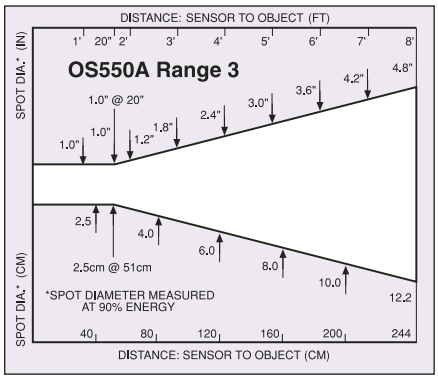
OMEGACARE℠ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE℠ covers parts, labor and equivalent loaners.

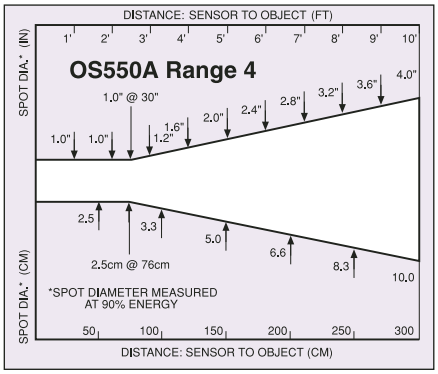
We make running changes when technical advances allow. Check at time of ordering for additional features.

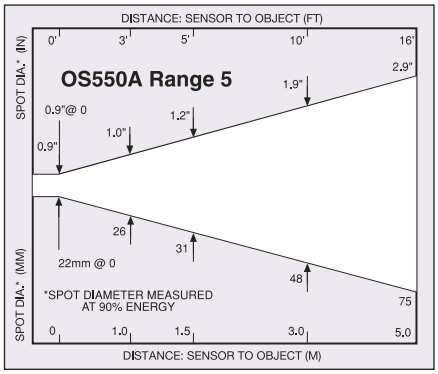
OS550A-BB Series Optical Field of View Diagrams

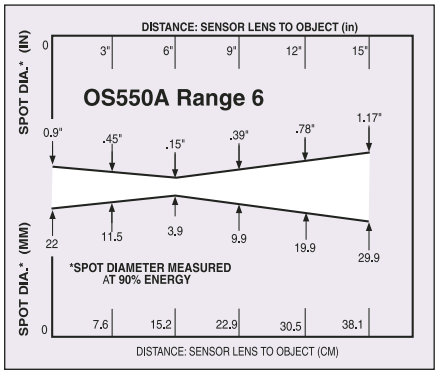












MOST POPULAR MODELS HIGHLIGHTED!

To Order *(Specify Model Number)*

Model No.	Price	Output	Temperature Range	RS232	Free PC Software
OS551A-MV-(*)-BB	**£298**	1 mV/deg	-23 to 400°C (-10 to 750°F)	—	—
OS551A-MA-(*)-BB	**298**	4 to 20 mA	-23 to 400°C (-10 to 750°F)	—	—
OS551A-V1-(*)-BB	**298**	0 to 5 Vdc	-23 to 400°C (-10 to 750°F)	—	—
OS552A-MV-(*)-BB	**298**	1 mV/deg	-23 to 540°C (-10 to 1000°F)	Standard	Standard
OS552A-MA-(*)-BB	**298**	4 to 20 mA	-23 to 540°C (-10 to 1000°F)	Standard	Standard
OS552A-V1-(*)-BB	**298**	0 to 5 Vdc	-23 to 540°C (-10 to 1000°F)	Standard	Standard
OS553A-MV-(*)-BB	**399**	1 mV/deg	-23 to 870°C (-10 to 1600°F)	Standard	Standard
OS553A-MA-(*)-BB	**399**	4 to 20 mA	-23 to 870°C (-10 to 1600°F)	Standard	Standard
OS553A-V1-(*)-BB	**399**	0 to 5 Vdc	-23 to 870°C (-10 to 1600°F)	Standard	Standard
OS554A-MV-(*)-BB	**466**	1 mV/deg	-18 to 1370°C (0 to 2500°F)	Standard	Standard
OS554A-MA-(*)-BB	**466**	4 to 20 mA	-18 to 1370°C (0 to 2500°F)	Standard	Standard
OS554A-V1-(*)-BB	**466**	0 to 5 Vdc	-18 to 1370°C (0 to 2500°F)	Standard	Standard

** Insert optics code from table below.*
† Insert desired sensor head cable length.
Comes with sensor head, 4.6 m (15') sensor head cable, main electronics and operator's manual. The OS552A, OS553A, and OS554A also include RS232 cable, cable connector/adaptor and CD software.
***Note**: Sensor head cable can be extended to a maximum of 15 m (50') **only** by the factory at time of purchase. Add suffix "**-(†)FT**" to the model number and **£2.20** per metre over 5 m.*
Ordering Examples: OS552A-MA-2-BB,** Infrared thermometer with -18 to 540°C (0 to 1000°F) range, 4 to 20 mA output and spot size 0.5" at 3", **£332. OS552A-MA-2-BB-35FT,** OS552A with current output, 0.5 at 3" FOV, 35' sensor head cable, £332 + 13.50 = £345.50. **OCW-3 OMEGACARE**℠ extends standard 2-year warranty to a total of 5 years (£82), £332 + 82 = **£414.

Optical Table*

Optical Range Code	Field of View (FOV)
– 1	Spot size 8.9 @ 609 mm (0.35" @ 24")
– 2	Spot size 12.7 @ 76 mm (0.5" @ 3")
– 3	Spot size 25.4 @ 508 mm (1" @ 20")
– 4	Spot size 25.4 @ 762 mm (1" @ 30")
– 5	Spot size 25.4 @ 1524 mm (1" @ 60")
– 6	Spot size 3.8 @ 152 mm (0.15" @ 6")

Accessories

Model No.	Price	Description
OS550-AP	**£43.50**	Air purge collar
OS550-WC	**131**	Air/water cooling jacket
OS550-MF	**43.50**	Mounting frame
OS550-MB	**23.50**	Right-angle mounting bracket
OS550-MN	**10**	Mounting nut
OS550-LS	**131**	Laser sighting (not shown)*
CAL-3-IR	**84**	NIST calibration certification
PSR-24S	**40**	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	**40**	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	**40**	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE
TX8-100	**30.50**	Power/output extension wire 30 m (100')
CAL-3-IR-X	**117**	NIST calibration (over 1000°F temperature)
WRS232-USB	**107**	Wireless RS232 transceiver

** 1 unit suitable for aligning many heads.*

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• Heaters

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