Industrial Non-Contact Infrared **Thermometer/Transmitter** data logging software with Local Display and included with models © 08552, 553 and 554

Analog Output

Accuracy ±1% of Reading **Models with Temperature** Ranges Measuring Up to 1370°C (2500°F) 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 NEMA 4** (IP66) System **RS232** Communication **Available Specifications**

OMEGA's OS550 Series industrial, high-performance, economical thermometer/transmitter offers a wide choice of temperature ranges, optical patterns, or fields of view and 3 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.

0 OSSSO SERIES INFRARED shown smaller

than actual size.

Available **OS550-MN** Accessories mounting nut.

> OS550-MF mounting frame.

OS550-AP

air purge collar.

Accuracy: ±1% of reading @ 25°C

ambient or 1.7°C (3°F), whichever

Spectral Response: 8 to 14 microns

Field of View (FOV): See diagrams

Transmitter Outputs: 1 mV/degree, 0

Repeatability: ±1% rdg ±1 digit

Emissivity Range: 0.10 to 1.00

Power: 7 to 24 Vdc @ 80 mA

Ambient Operating Range:

with OS550-WC; 0 to 85°C

Alarms: Visual and audible

PC compatible software included

(32 to 185°F)

Environmental Ratings: NEMA 4

(IP65) water-tight and dust-tight for

sensing head and electronics enclosure

Sensing head 0 to 50°C (32 to 122°F)

Display: Backlit LCD

to 5 Vdc or 4 to 20 mA

is greater

OS550-WC air/water cooling iacket.

BUIETA

OS550-MB mounting bracket.

OS550 sensor head

(included) shown

and mounting nut.

With optional mounting bracket

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

Connection: 4.5 m (15'), head and power cable included

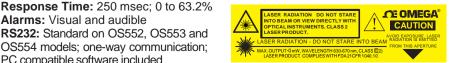
Dimensions:

Sensing Head: 10.9 x 4.1 cm (4.30 x 1.63"), 1½ to 20 thread Electronics: 13.3 x 9.1 cm (5.25 x 3.62")

Weight:

Sensing Head: 0.45 kg (12 oz) **Electronics Mounted in NEMA 4** (IP65) Enclosure: 1.2 kg (43.2 oz)

OMEGACARE[™] 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.



RS232: Standard on OS552, OS553 and

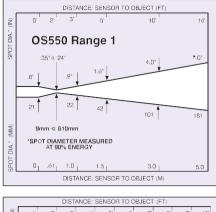
OS554 models; one-way communication;

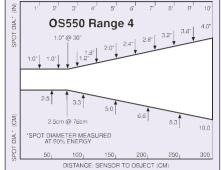
OS550 Series Optical Field of View Diagrams DISTANCE: SENSOR TO OBJECT (FT)

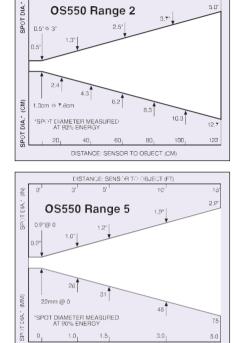
2

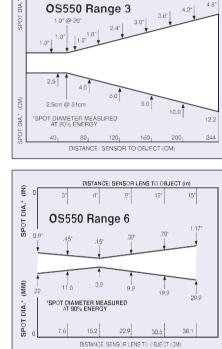
(N)

3"









DISTANCE: SENSOR TO OBJECT (FT)

4.8

1' 20" 2'

ŝ

 4°

3. 4' 5

MOST POPULAR MODELS HIGHLIGHTED!

| To Order Complete NEMA 4 (IP65) System (Specify Model Number) | | | | | |
|---|-------|------------|-----------------------------|----------|------------------|
| Model No. | Price | Output | Temperature Range | RS232 | Free PC Software |
| OS551-MV-(*) | \$495 | 1 mV/deg | -18 to 400°C (0 to 750°F) | — | — |
| OS551-MA-(*) | 495 | 4 to 20 mA | -18 to 400°C (0 to 750°F) | — | — |
| OS551-V1-(*) | 495 | 0 to 5 Vdc | -18 to 400°C (0 to 750°F) | — | — |
| OS552-MV-(*) | 550 | 1 mV/deg | -18 to 540°C (0 to 1000°F) | Standard | Standard |
| OS552-MA-(*) | 550 | 4 to 20 mA | -18 to 540°C (0 to 1000°F) | Standard | Standard |
| OS552-V1-(*) | 550 | 0 to 5 Vdc | -18 to 540°C (0 to 1000°F) | Standard | Standard |
| OS553-MV-(*) | 650 | 1 mV/deg | -18 to 870°C (0 to 1600°F) | Standard | Standard |
| OS553-MA-(*) | 650 | 4 to 20 mA | -18 to 870°C (0 to 1600°F) | Standard | Standard |
| OS553-V1-(*) | 650 | 0 to 5 Vdc | -18 to 870°C (0 to 1600°F) | Standard | Standard |
| OS554-MV-(*) | 750 | 1 mV/deg | -18 to 1370°C (0 to 2500°F) | Standard | Standard |
| OS554-MA-(*) | 750 | 4 to 20 mA | -18 to 1370°C (0 to 2500°F) | Standard | Standard |
| OS554-V1-(*) | 750 | 0 to 5 Vdc | -18 to 1370°C (0 to 2500°F) | Standard | Standard |

DISTANCE: SENSOR TO OBJECT (M)

* 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 (50'). Add suffix "-(*)FT" to order number and per 0.3 m (1') over 5 m (15') to price. Ordering Examples: OS552-MA-2, infrared thermometer with -18 to 540°C (0 to 1000°F) range, 4 to 20 mA output and spot size 12.7 mm (0.5") at 76 mm (3"). **OS551-MA-2-35FT**, OS551 with current output, 0.5 at 3" FOV, 11 meter sensor head cable. **OCW-3**, OMEGACARE[™] extends standard 2-year warranty to a total of 5 years,

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 | \$65 | Air purge collar | |
| OS550-WC | 195 Air/water cooling jacket | | |
| OS550-MF | 65 Mounting frame | | |
| OS550-MB | 35 | 5 Right-angle mounting bracket | |
| OS550-MN | 15 | Mounting nut | |
| OS550-LS | 195 | Sighting viewer (laser) (not shown)* | |
| CAL-3-IR | 125 | NIST calibration certification | |
| CAL-3-IR-X | 175 | NIST calibration for over 1000°F | |
| PSR-24S | 60 Regulatedpowersupply, USplug, 90to264Vac input, 24Vdcoutput, 400mA, screwterminals, UL | | |
| PSR-24L | 60 | Regulatedpowersupply, USplug, 90 to 264 Vac input, 24 Vdcoutput, 400 mA, strippedleads, UL | |
| PSR-24L-230 | 60 | Regulated power supply, European plug, 230 Vac input, 24 Vdcoutput, 400 mA, strippedleads, CE | |
| TX4-100 | 28.50 | Power/output extension wire 30 m (100') | |

* 1 unit suitable for aligning many heads.

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