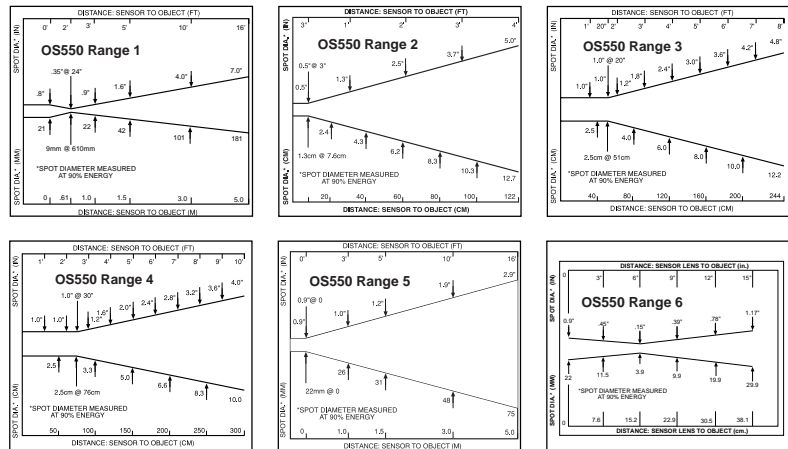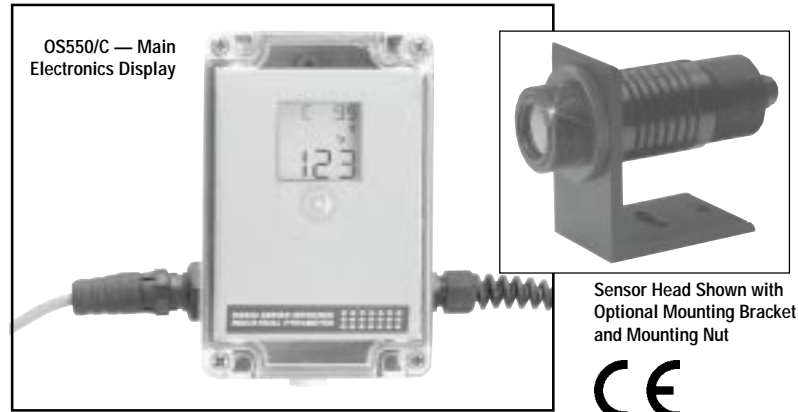# OS550/C

Industrial Infrared Thermometer Series

- **Accuracy ± 1% of Reading**

- **Models with Temperature Ranges Measuring Up to 1600°F (870°C)**

- **Emissivity Adjustable from 0.1 to 1.00 in 0.01 Steps**

- **Current, Voltage or MilliVolt Output**

- **Laser Sight (Optional)**

- **Dual Digital Display Indicates Current with Min, Max, Average or Difference Temperatures on Most Models**

- **°F/°C Keypad Selectable**

- **Complete NEMA-4 System**

- **RS-232 Communications**

OS550/C — Main Electronics Display

Sensor Head Shown with Optional Mounting Bracket and Mounting Nut

Field of View diagrams: OS550 Range 1 through OS550 Range 6

Optical Table

Optical Range Code(FOV)	Field of View Spot Size
– 1	0.35" at 24"
– 2	0.5" at 3"
– 3	1" at 20"
– 4	1" at 30"
– 5	1" at 60"
– 6	0.15" at 6"

Accessories

Model	Description
OS550-AP/C	Air Purge Collar
OS550-WC/C	Air/Water Cooling Jacket
OS550-MF/C	Mounting Frame
OS550-MB/C	Right-angle Mounting Bracket
OS550-MN/C	Mounting Nut
OS550-LS/C	Sighting Viewer (laser) (not shown)[1]
PSU24B/C	24 Vdc Power Supply
TX4-100/C	Power/Output Extension Wire (100 Ft.)

1. One unit suitable for aligning many heads.

Specifications

Accuracy: ±1% of reading @ 25°C ambient or 3°F whichever is greater.
Repeatability: ±1% rdg ±1 digit
Spectral Response: 8 - 14 microns
Emissivity Range: 0.10 to 0.99
Field of View (FOV): See Diagrams
Display: Backlit LCD
Transmitter Outputs:
1 mV/degree, 0 - 5 Vdc, or 4 - 20 mA
Power: 7 - 24 Vdc @ 80 mA
Environmental Ratings: NEMA-4 water-tight and dust-tight for sensing head and electronics enclosure
Ambient Operating Range: sensing head 0 to 185°F

(-18 to 85°C) with OS550-WC; (0 to 50°C) without OS550-WC electronics 32 to 122°F (0 to 50°C)
RS-232: Standard on OS552, OS553
Connection: 4.5 m (15 Ft.) Head and Power Cable Included
Dimensions:
Sensing Head: 10.9 x 4.1 cm (4.30 x 1.63"),1^1/$_2$ - 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 Enclosure: 1.2 kg (43.2 oz)

Specifications and Ordering Information

Model	Output	Temperature Range
OS551-MV-([1])/C	1 mV/deg.	0 to +750°F (-18 to +400°C)
OS551-MA-([1])/C	4-20 mA	0 to +750°F (-18 to +400°C)
OS551-V1-([1])/C	0-5 Vdc	0 to +750°F (-18 to +400°C)
OS552-MV-([1])/C	1 mV/deg.	0 to +1000°F (-18 to +540°C)
OS552-MA-([1])/C	4-20 mA	0 to +1000°F (-18 to +540°C)
OS552-V1-([1])/C	0-5 Vdc	0 to +1000°F (-18 to +540°C)
OS553-MV-([1])/C	1 mV/deg.	0 to +1600°F (-18 to +870°C)
OS553-MA-([1])/C	4-20 mA	0 to +1600°F (-18 to +870°C)
OS553-V1-([1])/C	0-5 Vdc	0 to +1600°F (-18 to +870°C)

1. Specify optical range code from Optical Table.

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