

Industrial Infrared Thermometer

with Local Display and Analog

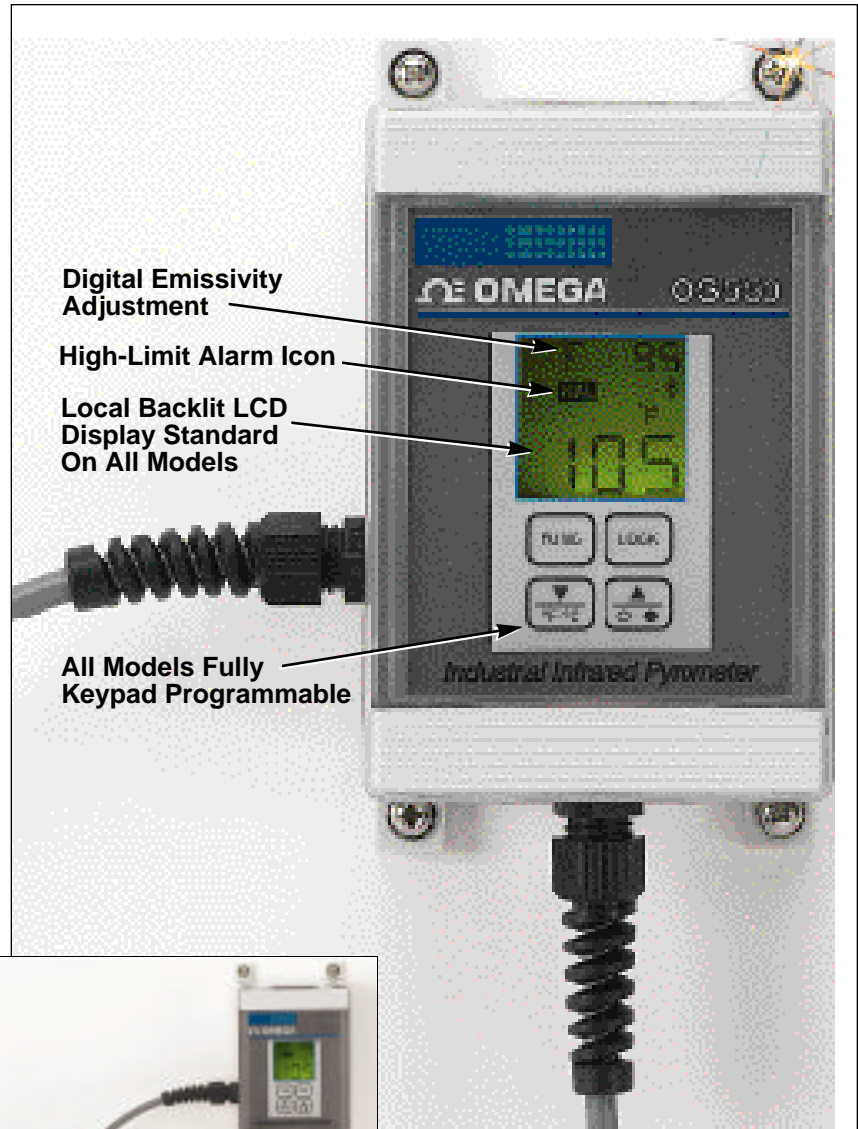


OS550 Series

\$495
Basic System



- U ±1% of Reading Accuracy**
- U Current, Voltage or Millivolt Output**
- U °C/°F Keypad Selectable**
- U Local Backlit LCD Display Standard**
- U Dual Display Indicates Current plus Min, Max, Average or Differential temperatures**
- U Visual and Audible High/Low Alarm with Relay Driver Output**
- U Emissivity Adjustable from 0.1 to 1.00 in 0.01 steps via the Programmable Keypad**
- U Fast 250 msec response time**
- U Complete NEMA-4 System**
- U RS-232 Available**
- U Safe and Easy to Install**



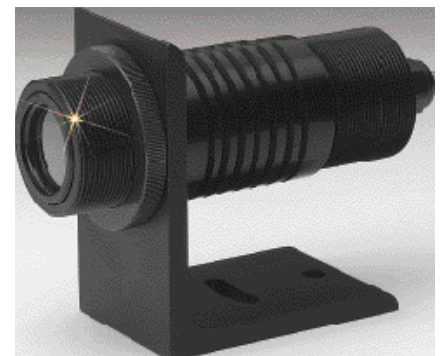
OMEGA's new OS550 Series Industrial, high performance, economical thermometers offer a choice of temperature ranges, optical patterns or fields of view and three outputs 1 mV/ degree, 4-20 mA, and 0-5 Vdc) to feed directly into panel meters, Recorders temperature/process controllers, dataloggers, data 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 their relatively small dimensions make these sensors ideally suited for a wide variety of applications.



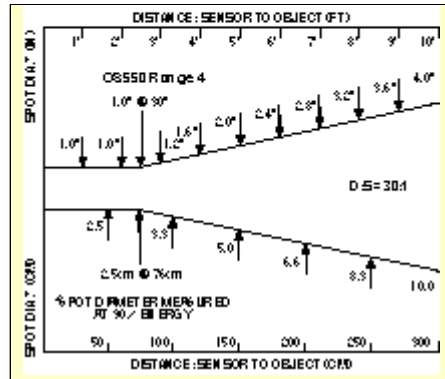
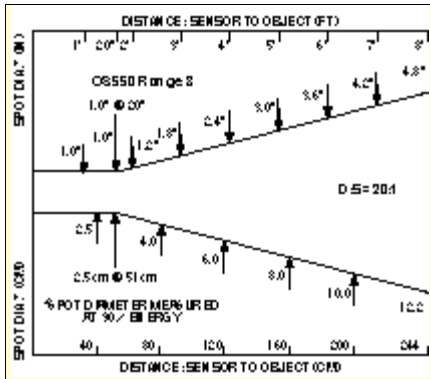
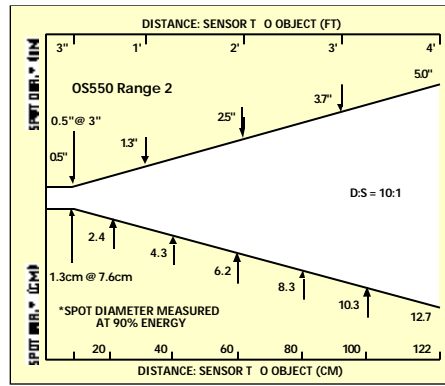
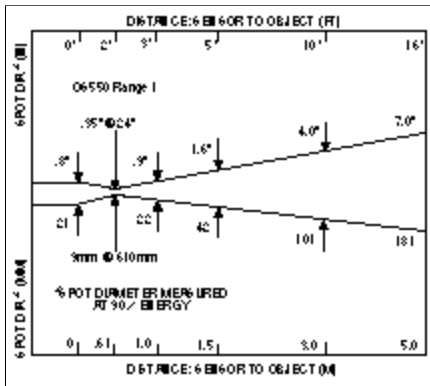
OS550 Complete System Shown



OS550 Sensor Head Shown With Optional Mounting Bracket

Industrial Infrared Thermometer, OS550 Series

OS550 Series Optical Field of View Diagrams



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

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); electronics 32 to 122°F (0 to 50°C)

RS-232: standard on OS552 and OS553 models.

Connection:

4.5 m (15 ft.) cable standard.

Dimensions:

Sensing Head: 10.9 x 4.1 cm

(4.30 x 1.63"), 1½-20 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)

Optical Table*

Optical Range Code	Field of View (FOV)
1	Spot Size .35" at 24"
2	Spot Size .5" at 3"
3	Spot Size 1" at 20"
4	Spot Size 1" at 30"

Accessories

To Order (Specify Model Number)

Model Number	Price	Description
OS550-AP	\$ 65	Air purge collar
OS550-WC	195	Air/water cooling jacket
OS550-MF	65	Mounting frame
OS550-MB	35	Right-angle mounting bracket
OS550-MN	15	Mounting nut
OS550-LS	195	Sighting viewer (laser)
-NIST	150	NIST Calibration Certification

Available Accessories

OS550-MF
Mounting
Frame, \$65

OS550-WC
Air/Water
Cooling
Jacket, \$195



OS550-AP
Air Purge
Collar, \$65

To Order Complete Nema-4 SYSTEM (Specify Model No.)

Model No.	Price	Output	Temperature Range	RS-232
OS551-MV-(*)	\$495	1 mV/deg.	0 to +750°F (-18 to +400°C)	—
OS551-MA-(*)	495	4-20 mA	0 to +750°F (-18 to +400°C)	—
OS551-V1-(*)	495	0-5 Vdc	0 to +750°F (-18 to +400°C)	—
OS552-MV-(*)	550	1 mV/deg.	0 to +1000°F (-18 to +540°C)	Standard
OS552-MA-(*)	550	4-20 mA	0 to +1000°F (-18 to +540°C)	Standard
OS552-V1-(*)	550	0-5 Vdc	0 to +1000°F (-18 to +540°C)	Standard
OS553-MV-(*)	650	1 mV/deg.	0 to +1600°F (-18 to +870°C)	Standard
OS553-MA-(*)	650	4-20 mA	0 to +1600°F (-18 to +870°C)	Standard

* Insert optics code from table above.

Ordering Example: OS552-MA-1, Infrared thermometer with 0 to 1000 Frange, 4-20 ma output and 10:1 optics.