

High Temperature Industrial Infrared Thermometer



Non-Contact Temperature Measurement with Integral Display and Analog Output

OS555A Series
Starts at
\$800

Make it Wireless
with Optional RS232
to USB Wireless
Transceiver!



Optional††

- ✓ Measure from 538 to 2482°C (1000 to 4500°F)
- ✓ See Thru Glass Window Applications
- ✓ 1% Rdg Accuracy
- ✓ 110:1 Field of View



OS555A-V1, \$850, shown smaller than actual size.

- ✓ Voltage/Current Analog Output
- ✓ Fast 100 ms Response Time
- ✓ Backlit LCD
- ✓ Adjustable Emissivity
- ✓ High/Low Alarms
- ✓ Data Storage and Logging
- ✓ RS232 Communications-Free User Software Included
- ✓ Available with NEMA 4 (IP65) Plastic or Aluminum Housing, or with No Case for OEM Applications



OMEGACARESM 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.

The OMEGA OS555A Series industrial high performance thermometer/transmitters offer a high temperature range of 538 to 2482°C (1000 to 4500°F), 110 to 1 optical field of view, any voltage or current analog output to feed directly to panel meters, recorders, temperature/process controllers, data loggers, and data acquisition systems. It also offers adjustable emissivity, high and low alarm outputs, PC serial interface, temperature data logging in real-time, and fast response time of 100 msec.

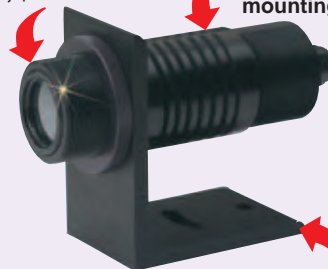
These ruggedly designed units are ideal for high temperature measurement and see through glass window applications.



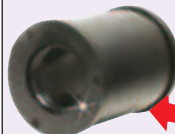
J-X

Available Accessories

OS550-MN mounting nut, \$15.



OS555A sensor head (included) shown with optional, mounting bracket and mounting nut.



OS550-WC air/water cooling jacket, \$195.

OS550-MB mounting bracket, \$35.



OS550-AP air purge collar, \$65.



OS550-MF mounting flange, \$65.

Specifications General

Range: 538 to 2482°C (1000 to 4500°F)

Accuracy: ±1% rdg to 1093°C (2000°F); ±2% rdg for higher temperatures; 25°C ambient, 0.95 emissivity

Repeatability: ±(1% rdg + 1 digit)

Spectral Response: 2 to 2.5 microns

Emissivity: 0.10 to 1.00 in 0.01 steps

Field of View: 110 to 1

Response Time: 100 ms, 0 to 63.5% of final value

Display: Backlit LCD

Analog Output: 1 mV/degree, 0 to 5 Vdc or 4 to 20 mA

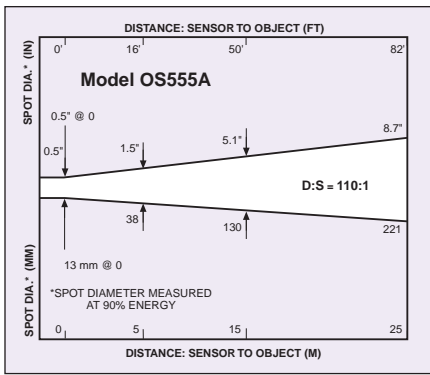
Alarms: High and low; red LED and audible indicators; two 100 mA current drives for external relays

Power: 8 to 24 Vdc, 80 mA

PC Interface: RS232, 2-way

†† Refer to Accessories on page J-Y for NIST calibration ordering information.

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Environmental

Rating: NEMA 4 (IP65); sensor head and plastic or aluminum electronics enclosure

Operating Ambient: 0 to 50°C (32 to 122°F) electronics and standard sensing head; 85°C (185°F) max temp for sensing head with water cooled jacket

Physical Dimensions:

Sensing Head: 109 L x 41 OD mm (4.3 x 1.63"); 1.5-20 thread

Electronics, Plastic Case: 120 H x 80 W x 51 L mm (4.75 x 3.15 x 2")

Electronics, Aluminum Case: 115 H x 90 W x 56 L mm (4.5 x 3.5 x 2.2")

Connections: 4.5 m (15') sensor head and power/output cables included

Weight: 0.45 kg (12 oz) sensing head; 1.2 kg (42.3 oz) plastic case

Laser Sighting

Wavelength: 650 nm, red

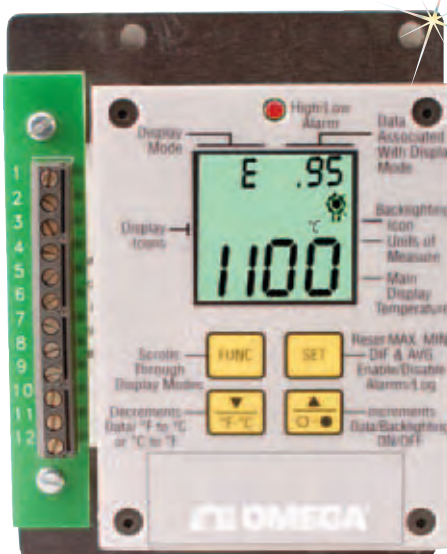
Operating Distance: Up to 12 m (40')

Max Laser Power Output: Less than 1 mW

Classification: FDA Class II Laser product; European Class 2

Beam Diameter: 5 mm

Operating Ambient: 0 to 50°C (32 to 122°F)



OS555A-V1-BB (OEM version), \$800, shown smaller than actual size.



MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)		
Model No.	Price	Electronics Enclosure
OS555A-(*)	\$850	Plastic, NEMA 4
OS555AM-(*)	890	Aluminum, NEMA 4
OS555A-(*)-BB	800	No enclosure, for OEM applications

Comes complete with operator's manual.

* Specify analog output signal: "MA" for 4 to 20 mA, "V1" for 0 to 5 Vdc or "MV" for 1 mV/degree.

To order with longer sensor head cable, up to 15 m (50"), add suffix "-(†)FT" to model number, and add \$1/ft for each additional foot over 15". † Specify length in feet.

Ordering Example: OS555A-V1, infrared thermometer with 538 to 2482°C (1000 to 4500°F) range, 110 to 1 field of view, 0 to 5 Vdc output, \$850.

Accessories

Model No.	Price	Description
OS550-AP	\$65	Air purge collar
OS550-WC	195	Air/water cool jacket
OS550-MF	65	Mounting flange
OS550-MB	35	Right angle mounting bracket
OS550-MN	15	Mounting nut
OS550-LS	195	Laser sighting**
CAL-3-IR-X††	175	NIST calibration certification
PSR-24S	60	Regulated 24 Vdc @ 400 mA supply, 90 to 264 Vac input, screw terminal
PSR-24L	60	Regulated 24 Vdc @ 400 mA supply, 90 to 264 Vac input, stripped leads
WRS232-USB	159	Wireless RS232 transceiver kit
TX8-100	95	Power/output extension cable, 30 m (100')
OM-CONV-USB	15	RS232 to USB interface converter
OS550A-PCAB-15	45	Power/output cable connector, 4.5 m (15')
OS550A-PCAB-100	130	Power/output cable connector, 30 m (100')

** One unit suitable for aligning many sensor heads.

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