



High Temperature Industrial Infrared Thermometer

Non-Contact Temperature Measurement with Integral Display and Analog Output

OS555A Series



Optional††

Make it Wireless with Optional RS232 to USB Wireless Transceiver!

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



OS555A-V1 shown smaller than actual size.

- ✓ Fast 100 ms Response Time
- ✓ Backlit LCD
- ✓ Adjustable Emissivity
- ✓ High/Low Alarms
- ✓ Data Storage and Logging
- ✓ RS232 Communications-Free PC Data Logging 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.



Available Accessories

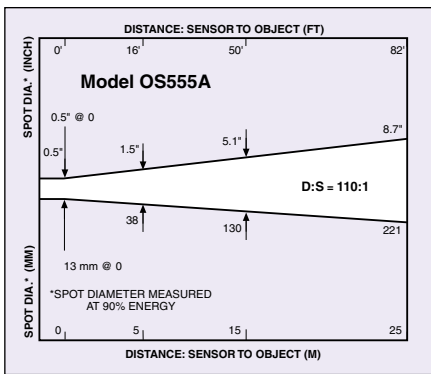


Specifications

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 next page for NIST calibration ordering information.



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 mm OD

(4.3 x 1.63"); 1.5-20 thread

Electronics, Plastic Case:

120 H x 80 W x 51 mm L
(4.75 x 3.15 x 2")

Electronics, Aluminum Case:

115 H x 90 W x 56 mm L

(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) shown smaller than actual size.

Make it Wireless with Optional RS232 to Wireless Transceiver!



WUSB wireless receiver.



OS555AM-V1, infrared industrial thermometer with 0 to 5 Vdc analog output aluminum enclosure.

WRS232-USB wireless transceiver sold separately.

To Order Visit omega.com/os555a for Pricing and Details

Model No.	Electronics Enclosure
OS555A-(*)	Plastic, NEMA 4 (IP65)
OS555AM-(*)	Aluminum, NEMA 4 (IP65)
OS555A-(*)-BB	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 additional cost for each additional foot over 15'. † Specify length in feet.

Ordering Examples: 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.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.

Accessories

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

** One unit suitable for aligning many sensor heads.