High Temperature Industrial Infrared Thermometer
Non-Contact Temperature Measurement with Integral Display and Analog Output

OS555A Series
Starts at $800

- 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
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

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

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.

OMEGACARE™ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers parts, labor and equivalent loaners.
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)

To Order (Specify Model Number)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Price</th>
<th>Electronics Enclosure</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS555A(*)</td>
<td>$850</td>
<td>Plastic, NEMA 4</td>
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<tr>
<td>OS555A(*)-BB</td>
<td>800</td>
<td>No enclosure, for OEM applications</td>
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<tr>
<td>OS555AM(*)</td>
<td>890</td>
<td>Aluminum, NEMA 4</td>
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</tbody>
</table>

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

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

** One unit suitable for aligning many sensor heads.
Omega.co.uk
Your One-Stop Source for Process Measurement and Control!

More than 100,000 Products Available!

- **Temperature**

- **Flow and Level**
  Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

- **pH and Conductivity**
  Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

- **Data Acquisition**
  Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

- **Pressure, Strain and Force**
  Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

- **Heaters**