

Industrial 4-Wire Infrared Temperature Transmitters

4 to 20 mA Output Standard

OS1550 Series
Starts at
\$690



*Ideal for use in
Fast-Changing Processes
with Exceptionally Fast
10 msec Time Constant.*



OS1551-A-200C,
\$690.

OS1552-A-816C,
\$690.

Both models shown
smaller than actual size.

OS1551-A

- ✓ Wide Field of View
- ✓ Temperature Range
0 to 200°C
(32 to 392°F) or
200 to 500°C
(392 to 1022°F)
- ✓ Spectral Response
8 to 14 Microns

OS1552-A

- ✓ Narrow Field of View
- ✓ Temperature Range
538 to 816°C
(1000 to 1500°F) or
816 to 1371°C
(1500 to 2500°F)
- ✓ Spectral Response
0.91 to 1.05 Microns

Common Features

- ✓ Non-Contact Measurement
- ✓ 4 to 20 mA Linear Output
- ✓ Fast 10 msec Time Constant
- ✓ Adjustable Emissivity

Combine any of OMEGA's process instruments pictured here to build a complete high-performance measurement and control system. OMEGA's complete line of controls offer industry standard options such as...

- RS232
- RS485
- Control/Alarm Relays
- Data Storage
- Computer Interface

The OS1551-A and OS1552-A have an exceptionally fast time constant of 10 msec (0 to 63.2%), which makes them ideal for use in fast-changing processes or to capture quick temperature changes.

They are compatible with any of OMEGA's process control instrumentation such as recorders, data loggers, meters, or temperature controllers. The DC system is drift free, has no moving parts, and may be used in a wide variety of process applications from 0 to 1370°C (32 to 2500°F) in sub-ranges. Typical applications include: low temperature measurement in textile manufacturing, printing, paper laminating, thick plastics, and measuring products heated by radiant heat sources.



\$599

Recommended RD8251 paperless recorder. See page S-11 for specifications and options.



\$310

Recommended CNI8 controller. See page P-13 for specifications and options.

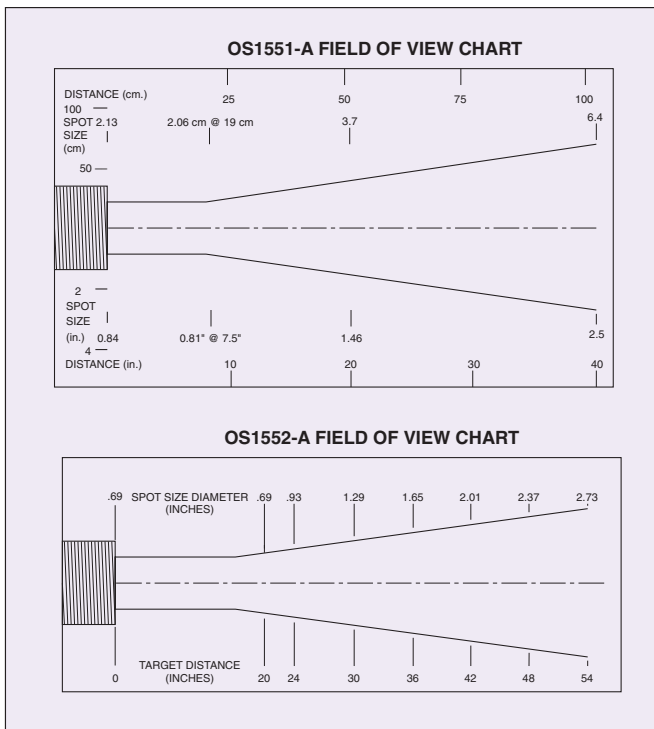


\$545

Recommended DP41-E process meter. See page M-35 for specifications and options.

We make running changes when technical advances allow. Check at time of ordering for additional features.

† Refer to accessories chart on next page for NIST calibration ordering information.



OS1551-A/OS1552-A rear view, shown actual size.

Digital emissivity adjustment.

Specifications

Temperature Range:
OS1551-A: 0 to 550°C (32 to 1022°F)
OS1552-A: 538 to 1371°C (1000 to 2500°F)

Accuracy: ±1.0% reading or 1.7°C (3°F) whichever is greater

Spectral Response:
OS1551-A: 8 to 14 microns
OS1552-A: 0.91 to 1.05 microns

Repeatability: ±1°C
Time Constant: 10 msec (0 to 63.2%)

Output: 4 to 20 mA
Power: 18 to 40 Vdc, 100 mA regulated
Loop Resistance: 0 to 1100 Ω @ 40 Vdc
Emissivity: 0.05 to 0.99, adjustable in 0.01 steps
Housing: Anodized aluminum

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

Dimensions: 69 Dia. x 203 mm L (2.7 x 8")

Weight: 680 g (1.5 lb)

Standard Cable: 4.6 m (15'), shielded, 4-wire



CAUTION! – This product is not intended for medical use or use on humans



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.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Temperature Range	Spectral Response	Spot Size
OS1551-A-200C	\$690	0 to 200°C (32 to 392°F)	8 to 14 microns	See FOV chart
OS1551-A-550C	690	200 to 550°C (392 to 1022°F)	8 to 14 microns	See FOV chart
OS1552-A-816C	690	538 to 816°C (1000 to 1500°F)	0.91 to 1.05 microns	See FOV chart
OS1552-A-1371C	690	816 to 1371°C (1500 to 2500°F)	0.91 to 1.05 microns	See FOV chart
DP41-E	545	Process meter, see page M-35 for specifications and options		
RD8251	599	Paperless recorder, see page S-11 for specifications and options		
CNi8	310	i Series process controller, see page P-13 for specifications and options		

Accessories

Model No.	Price	Description
OS1550-MB	\$50	Mounting bracket
OS1550-MN	15	Mounting nut
OS1550-AP	125	Air purge collar
OS1550-WC	225	Water cooling jacket
OS1550-LS	225	Laser sight
PSR-24S	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, screw terminals, UL
PSR-24L	60	Regulated power supply, US plug, 90 to 264 Vac input, 24 Vdc output, 400 mA, stripped leads, UL
PSR-24L-230	60	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads, CE
PSU-93	40	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
TX4-100	35	4-conductor, shielded power/output extension cable
CAL-3-IR†	125	NIST-traceable calibration

Ordering Examples: OS1552-A-816C, high-temperature fiber optic pyrometer with a spectral response of 0.91 to 1.05 microns and OS1550-MB, mounting bracket and OS1550-MN, mounting nut, \$690 + 50 + 15 = \$755.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$172), \$690 + 172 = \$862.



UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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More than 100,000 Products Available!

• Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

• 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

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 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, Strain Gages, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters