

Industrial 4-Wire Infrared Temperature Transmitters

4 to 20 mA Output Standard

OS1550 Series
Starts at
£462



Ideal for use in fast-changing processes with exceptionally fast 10 msec time constant.



OS1551-A-200C, £462.

OS1552-A-816C, £462.

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

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

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.

£535

Recommended CTXL-DPR-W-I recorder. See Section S for specifications and options.

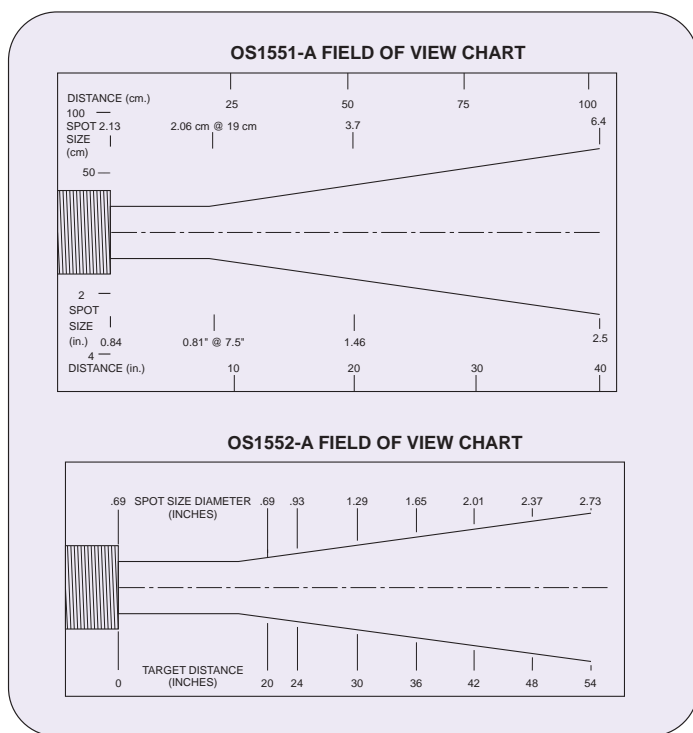
£208

Recommended CNi8 controller. See Section P for specifications and options.

£365

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

Digital emissivity adjustment.



OS1551-A/OS1552-A rear view. Shown slightly smaller than actual size.

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 @ 40 Vdc

Emissivity: 0.05 to 0.99, adjustable in 0.01 steps

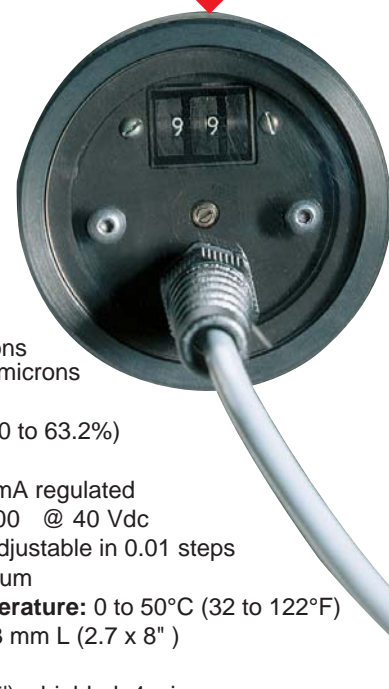
Housing: Anodized aluminum

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



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Temperature Range	Spectral Response	Spot Size
OS1551-A-200C	£462	0 to 200°C (32 to 392°F)	8 to 14 microns	See FOV chart
OS1551-A-550C	462	200 to 550°C (392 to 1022°F)	8 to 14 microns	See FOV chart
OS1552-A-816C	462	538 to 816°C (1000 to 1500°F)	0.91 to 1.05 microns	See FOV chart
OS1552-A-1371C	462	816 to 1371°C (1500 to 2500°F)	0.91 to 1.05 microns	See FOV chart
DP41-E	365	Process meter, see section M for specifications and options		
CTXL-DPR-W-I	535	Chart recorder, see section S for specifications and options		
CNi8	208	i Series process controller, see section P for specifications and options		

Ordering Example: OS1552-A-816C, high-temperature fiber optic pyrometer with a spectral response of 0.91 to 1.05 microns, £462.

Accessories: OS1550-MB, mounting bracket, £33.50, and OS1550-MN, mounting nut, £10.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (£115), £462 + 115 = £577.

Accessories

Model No.	Price	Description
OS1550-MB	£33.50	Mounting bracket
OS1550-MN	10	Mounting nut
OS1550-AP	84	Air purge collar
OS1550-WC	151	Water cooling jacket
OS1550-LS	151	Laser sight
PSR-24L-230-UK	40	Regulated power supply, UK plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads
PSR-24L-230	40	Regulated power supply, European plug, 230 Vac input, 24 Vdc output, 400 mA, stripped leads
PSU-93	40	Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
TX4-100	19	4-core, screened power/output extension cable
CAL-3-IR	90	Traceable calibration certificate with test results

OMEGACARESM extended warranty programme is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labour and equivalent loaners.



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• 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

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• 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