Industrial 4-Wire Infrared Temperature Transmitters
4 to 20 mA Output Standard

OS1550 Series Starts at
$690

MADE IN USA
2 YEAR WARRANTY
NIST
Optional†

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

OS1552-A-816C, $690.

OS1551-A-200C, $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**

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

Combine any of 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 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

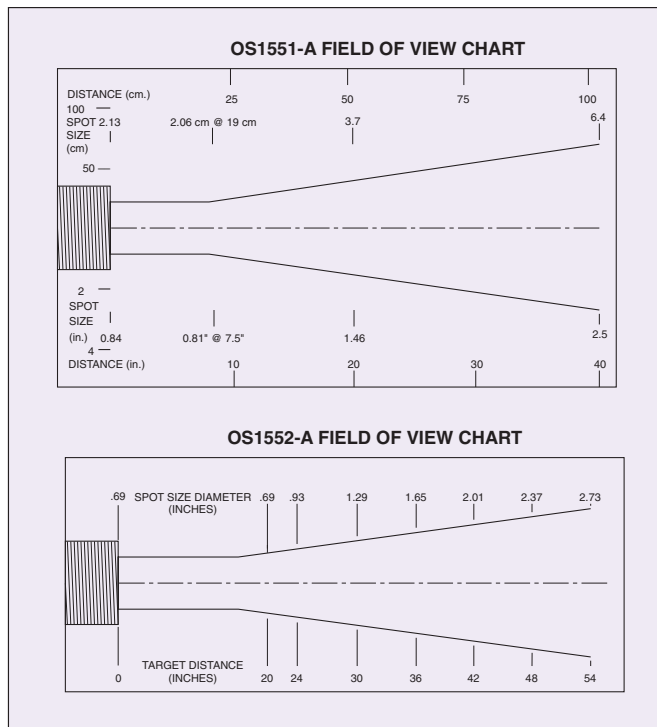**Recommended CNi8 controller. See page P-13 for specifications and options.**

$545

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

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

OS1551-A FIELD OF VIEW CHART

DISTANCE (cm.) 25 50 75 100
100
SPOT 2.13 2.06 cm @ 19 cm 3.7 6.4
SIZE
(cm)
50 —

2 —
SPOT
SIZE
(in.) 0.84 0.81" @ 7.5" 1.46 2.5
4 —
DISTANCE (in.) 10 20 30 40

OS1552-A FIELD OF VIEW CHART

.69 SPOT SIZE DIAMETER .69 .93 1.29 1.65 2.01 2.37 2.73
(INCHES)

TARGET DISTANCE
(INCHES)
0 20 24 30 36 42 48 54

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

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

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⬜ *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	ℹ️ 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.***
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