

Close Focus Infrared Pyrometers

Non-Contact Surface Measurement of Temperature and Heat Flow

OS-610/OS-620 Series
Starts at
\$495



Optional†

- ✓ Easy to Use
- ✓ Fast Response
- ✓ °C/°F Switchable
- ✓ 1 mV Per Degree Analog Output Optional

Applications

- ✓ Safely Measures Electrical Components, Dangerous and Inaccessible Materials
- ✓ Non-Destructive Testing of Circuit Boards, Motors and Bearings, Steam Traps, Injection Molding
- ✓ Heat Flow Models (OS-620 Series) for Energy Conservation, Estimation of R-Value (U-Value), Preventive Maintenance, Location of Insulation Defects

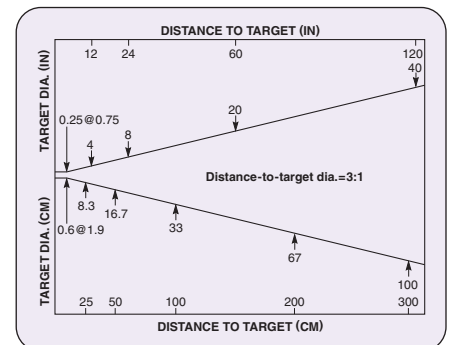
The OS-610 and OS-620 Series pyrometers from OMEGA contain a passive sensor which receives and measures (heat) radiation from an object. Since temperature is measured without contact, measurements are made rapidly (one second) so that thermal patterns and transient phenomena can be observed. Since heat is not removed from the measured object, accuracy is assured. Moving objects, dangerous materials and electrical components can be safely measured.



The OS-620 Series infrared energy meters have the additional feature of measuring heat loss (or gain) through walls and windows without physical contact. These versatile units are designed to measure the temperature of building materials such as paper, plaster, ceramic, stone, concrete and glass that have emissivities between 0.9 and 1.0.

Net heat flow is measured inside the building by switching the instrument to BTU (or watts) and aiming at a wall or surface which represents the internal temperature of the building. The display is then "zeroed," using the zero adjust control. Net heat flow in BTU (or watts) is then displayed when the instrument is aimed at an exterior wall or window.

Complete with sensing head, electronics, 9 V battery, and display. SC-600 carrying case sold separately, \$20.





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.

Accessories

Model No.	Price	Description
OS-600-STAND	\$58	Probe stand
OS-610-MOUNT	60	Preset distance mount
SC-600	20	Soft carrying case
CAL-3-IR†	125	NIST-traceable calibration



Specifications

	OS-611 OS-612 OS-613	OS-614	OS-621 OS-622
Accuracy	±1% rdg ±1 digit	±1°C/1°F ±1 digit	±1% rdg ±1 digit
Repeatability	±0.5% rdg ±1 digit		
Minimum Target Size	¼" dia. at ¼" distance		
Distance to Target Ratio	3 to 1		
Emissivity	0.2 to 1.0 adjustable		0.95 fixed
Response Time	One second		
Spectral Response	8 to 14 microns		
Analog Output	1 mV per degree (optional)*		Not available
Power Source	9 V alkaline battery (included)		
Battery Life	200 hours continuous		
Ambient Temperature	0 to 50°C (32 to 120°F)		
Size of Probe	3.3 H x 3.3 W x 15.9 cm D (1.3 x 1.3 x 6.2")		
Size of Display Unit	3.3 H x 8.1 W x 15.7 cm D (1.3 x 3.2 x 6.2")		
Weight of Probe	142 g (5 oz)		
Weight of Display Unit	272 g (9.6 oz)		

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Range	Resolution	Emissivity	Applications
OS-611	\$495	0 to 315°C 0 to 600°F	1°C 1°F	0.2 to 1.0	Most popular model; suits most application needs
OS-612	595	-55 to 125°C -67 to 260°F	1°C 1°F	0.2 to 1.0	Low temperature model
OS-614	650	0 to 90°C 0 to 200°F	1°C 1°F	0.2 to 1.0	High accuracy model ±1°F/1°C
OS-621	575	0 to 500°F 0 to 2000 BTU/ft ² hr	1°F 1 btu/ft ² hr	Fixed at 0.95	Temperature and heat flow measurement for energy conservation, insulation defects, and plant maintenance
OS-622	575	0 to 260°C 0 to 2000 W/m ²	1°C 1 W/m ²	Fixed at 0.95	

* To order with optional analog output/ac power, add suffix "-A" to model no. and add \$50 to price.

Comes complete with sensing head, electronics, 9V battery and operators manual.

Ordering Example: OS-614, high accuracy model pyrometer with 0 to 90°C (0 to 200°F) range with SC-600, carrying case, \$650 + 20 = \$670. OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years (\$162), \$650 + 162 = \$812.



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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

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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