

# Close Focus Infrared Pyrometers

## Non-Contact Surface Measurement of Temperature and Heat Flow

### OS-610/OS-620 Series



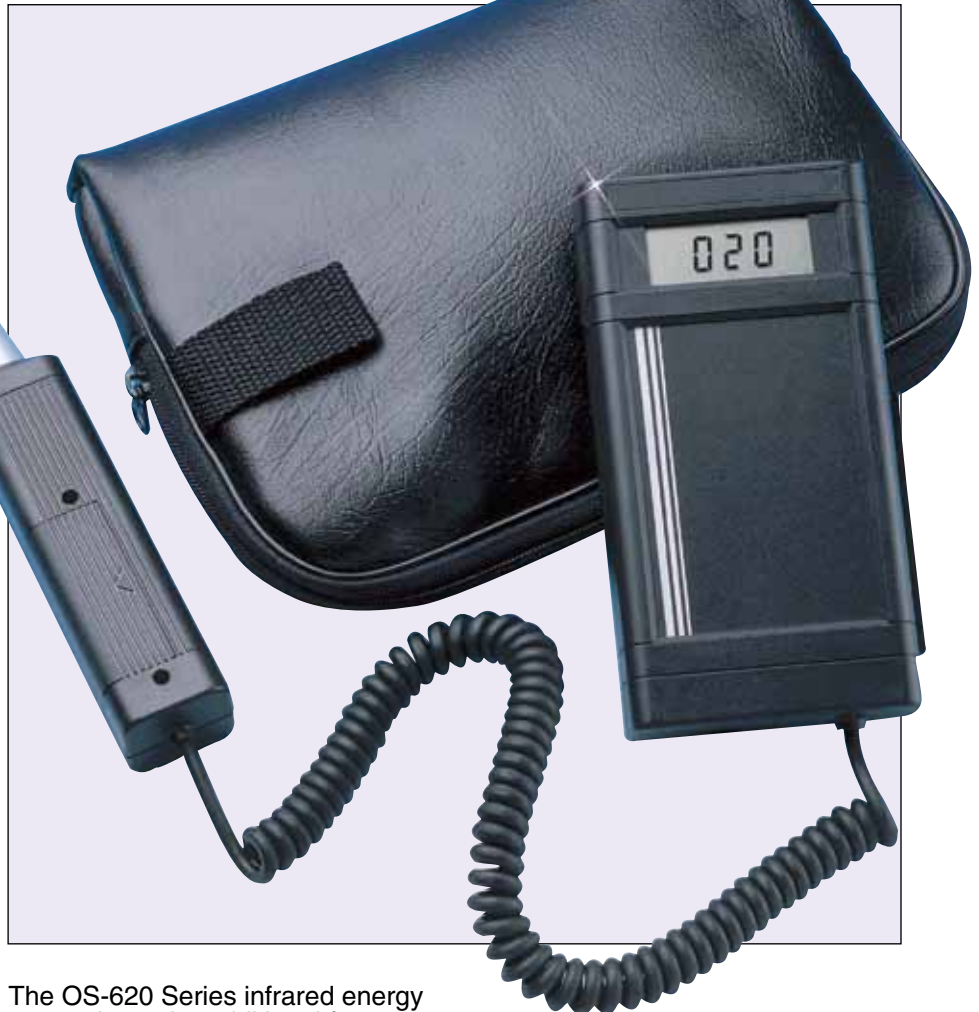
Optional

- ✓ 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

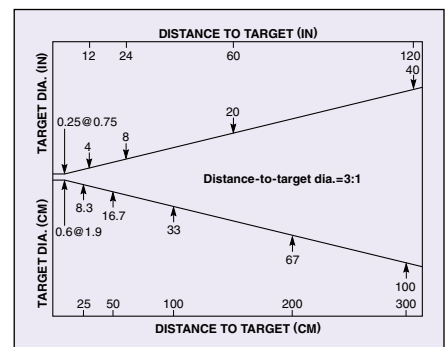
The OS-610 and OS-620 Series pyrometers from OMEGA contain a passive sensor which receives and measures (heat) radiation from an object. Since temperature is measured without contact, measurements are made rapidly (one second) so that thermal patterns and transient phenomena can be observed. Since heat 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.





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

**Accessories**

Model No.	Description
OS-600-STAND	Probe stand
OS-610-MOUNT	Preset distance mount
SC-600	Soft carrying case
CAL-3-IR	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)		

To Order Visit <a href="http://omega.com/os-610_620">omega.com/os-610_620</a> for Pricing and Details				
Model No.	Range	Resolution	Emissivity	Applications
OS-611	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	-55 to 125°C -67 to 260°F	1°C 1°F	0.2 to 1.0	Low temperature model
OS-614	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	0 to 500°F 0 to 2000 BTU/ft² hr	1°F 1 btu/ft² hr	Fixed at 0.95	Temperature and heat flow measurement for energy conservation, insulation defects, and plant maintenance
OS-622	0 to 260°C 0 to 2000 W/m²	1°C 1 W/m²	Fixed at 0.95	

\* To order with optional analog output/ac power, add suffix "-A" to model number for an additional cost. 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. OCW-3, OMEGACARE<sup>SM</sup> extends standard 2-year warranty to a total of 5 years.