

Digital Infrared Temperature Scanner with Automatic Emissivity Compensation



OS91, \$849, shown larger than actual size.

OS91
\$849



Applications

- ✓ Research
- ✓ Production
- ✓ Quality Control
- ✓ Maintenance
- ✓ Energy Conservation

- ✓ Automatic Emissivity Compensation
- ✓ Scans Temperature Rapidly
- ✓ -46 to 288°C (-50 to 550°F) Range
- ✓ OS91 Features 0.1°C/°F Resolution with Scan/Min/Max and Audible Assist
- ✓ Spectral Response from 2 to 20 Microns



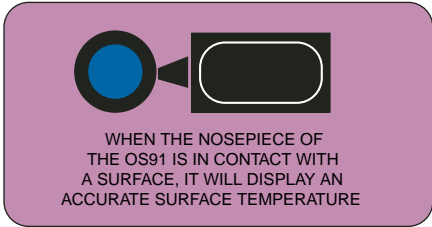
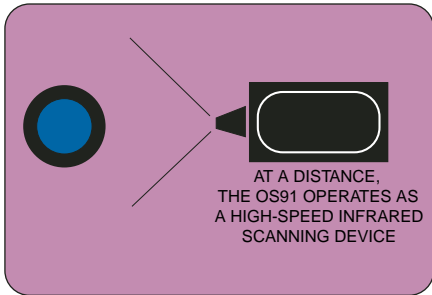
- ✓ Analog Output Optional
- ✓ Fast 80 ms Time Constant
- ✓ Shirt-Pocket Size
- ✓ High-Impact Housing with Copper EMI Shield
- ✓ Measures Relative Humidity and Dew Point

The OS91 infrared temperature scanner is a general purpose instrument that can measure surface temperature quickly and accurately. Because it is microprocessor powered and computer calibrated, the OS91 is highly stable. It has a patented automatic emissivity compensation system for close-up measurements; no emissivity adjustment is required. The factory calibration lasts for the lifetime of the instrument and is NIST-traceable.

The OS91 has a 0.1° resolution that switches between °C and °F with the push of a button. Instant lock, max-reading lock, and min-reading lock features offer the utmost in speed and precision. An audible assist feature beeps when a new min or max reading is detected. The OS91 updates its display every 100 ms. The copper-coated housing shields against EMI/noises, which makes this model attractive in the medical field. The one-piece, high-impact design eliminates cable and probe failures and provides unsurpassed durability. A psychrometer kit (included) allows measurements of wet and dry bulb temperatures. The OS91 has a dial indicator to translate scanned temperatures into relative humidity and dew point values.



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.



Accurate Over a Wide Emissivity Range

Specifications	
Temperature Range	-46 to 288°C (-50 to 550°F)
Temperature Units	°C/°F switchable
Linearity Error	±1% rdg + 1 digit
Emissivity Error	±1% of difference between target temperature and instrument temperature when touching surface (0.8 to 1.0 €)
Repeatability	±0.1°C or °F
Resolution	0.1°C or °F
LED Display Update	100 ms
Time Constant	Approx 80 ms
Field of View	Approx 1:1 (53°)
Minimum Spot Size	6.4 mm (0.25")
Spectral Response	2 to 20 microns
Power	9V alkaline battery (included)
Battery Life	Approx 5000 readings
Dimensions	86 x 127 x 19 mm (3.375 x 5 x 0.75")
Weight	0.2 kg (7 oz)

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
OS91	\$849	Digital temperature scanner, 0.1° resolution
OS91-A	1024	OS91 with analog output
OS91-PEN	10	Spare marking pen
PE-1410	70	Reference Book: Practical Optics

Comes complete with relative humidity kit, carrying pouch, marking pen, 9V alkaline battery and operator's manual.

Ordering Example: OS91, 0.1° resolution scanner, \$849.

OCW-2, OMEGACARESM extends standard 2-year warranty to a total of 4 years (\$152), \$849 + 152 = \$1001.

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