

Digital Infrared Temperature Scanner With Automatic Emissivity Compensation

OS91



OS91 shown actual size.

Dimensions: mm (inch)

Applications

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

- ✓ Automatic Emissivity Compensation
- ✓ Scans Temperature Rapidly
- ✓ -45 to 287°C (-50 to 550°F) Range
- ✓ 0.1°C/°F Resolution with Scan/Min/Max and Audible Assist

Carrying case included.

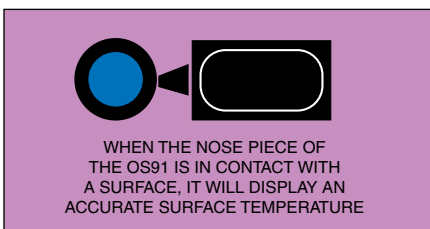
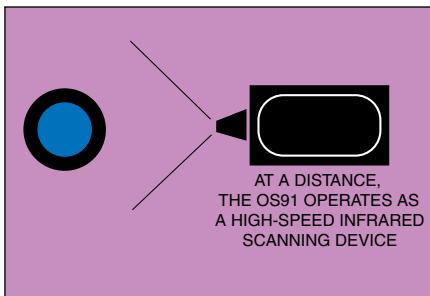
- ✓ Spectral Response from 2 to 20 Microns
- ✓ Analog Output Optional
- ✓ Fast 80 ms Time Constant
- ✓ High-Impact Housing with Copper EMI Shield
- ✓ Measures Relative Humidity and Dew Point



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 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	-45 to 287°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)

To Order

Model No.	Description
OS91	Digital temperature scanner, 0.1° resolution
OS91-A	OS91 with analog output
OS91-PEN	Spare marking pen

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

Ordering Example: OS91, 0.1° resolution scanner. OCW-2, OMEGACARESM extends standard 2-year warranty to a total of 4 years.