OMEGA’s new infrared sensor with wireless transmitter features a remote IR sensor and radio wireless transmitter in a NEMA enclosure. The miniature sensor head is ideal for measuring temperatures from -18 to 538°C (0 to 1000°F) in confined, hard-to-reach places and harsh environments. The wireless transmitter is mounted in a NEMA 4 (IP65) plastic enclosure. When activated the unit will transmit readings continuously at pre-set time interval that was programmed by the user during the initial setup. Each unit measures and transmits: IR sensor reading, ambient temperature, RF signal strength and battery condition to the host and is displayed on the PC screen in real time using the provided software. Each unit includes free software that converts your PC into a strip chart recorder or data logger so readings can be saved and later printed or exported to a spread sheet file.

Specifications
(See omega.com for complete specifications)

Temperature Range: -18 to 538°C (0 to 1000°F)
Accuracy @ 22°C (72°F) Ambient Temperature and
Emissivity of 0.95 or Greater: ±2% rdg or 2.2°C (4°F),
whichever is greater
Optical Field of View: 6:1 (distance/spot size)
Sensor Head Cable: 1.8 m (6’) standard; up to 15 m (50’)
total length capable
Repeatability: ±1% rdg
Spectral Response: 5 to 14 microns
Response Time: 100 ms (0 to 63% of final value)
Emissivity Range: 0.1 to 1.00, adjustable

Operating Temperature
Wireless Transmitter: -10 to 70°C (14 to 158°F)
Sensor Head: 0 to 70°C (32 to 158°F)
Sensor Head with OS100-WC (Water Cooling Jacket):
0 to 200°C (32 to 392°F)
Operating Relative Humidity: Less than 95% RH,
non-condensing
Water Flow Rate (OS100-AP): 1 CFM (0.5 L/s)
Air Flow Rate (OS100-AP): 1 CFM (0.5 L/s)
Battery Life (Typ): 1 year
Laser Sight Accessory (OS100-LS)
Wavelength (Color): 630 to 670 nm (red)
Operating Distance (Laser Dot): Up to 400 ft (122 m)
Max Output Optical Power: Less than 1 mW @ -6°C
(22°F) ambient temperature
European Classification: Class 2, EN60825-1/11.2001

For Available Receivers, See omega.com
OS100-AP air purge collar to keep the lens free of particles or debris. Both shown smaller than actual size.

OS100-WC water cooling jacket for use to 200°C.

Maximum Operating Current: 45 mA @ 3 Vdc
FDA Classification: Complies with 21 CFR 1040.10, Class II laser product
Beam Diameter: 5 mm (0.20")
Beam Divergence: <2 mrad
Operating Temperature: 0 to 50°C (32 to 122°F)
Operating Relative Humidity: Less than 95% RH, non-condensing

Power Switch: On/off slide switch on the battery pack
Power Indicator: Red LED
Power: Battery pack, 3 Vdc (consists of two 1.5 Vdc "AA" lithium batteries)
Dimensions: 38 diameter x 50.8 mm L (1.5 x 2")

To Order Visit omega.com/uwir-2 for Pricing and Details

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>UWIR-2-NEMA</td>
<td>Non-contact wireless infrared transmitter with remote sensor, 1.8 m (6') cable</td>
</tr>
<tr>
<td>UWTC-BATT-C</td>
<td>Replacement 3.6V lithium &quot;C&quot; battery assembly</td>
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<tr>
<td>UWTC-CABLE</td>
<td>Spare programing cable (one included with receivers)</td>
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Accessories

<table>
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<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>OS100-MB</td>
<td>Mounting bracket</td>
</tr>
<tr>
<td>OS100-DR</td>
<td>DIN rail mounting adaptor</td>
</tr>
<tr>
<td>OS100-AP</td>
<td>Air purge collar</td>
</tr>
<tr>
<td>OS100-WC</td>
<td>Laser sighting accessory</td>
</tr>
<tr>
<td>OS100-LS</td>
<td>Water cool jacket, up to 200°C (392°F)</td>
</tr>
<tr>
<td>OS100-CA15FT</td>
<td>Sensor head extension cable, 4.6 m (15')</td>
</tr>
<tr>
<td>OS100-CA25FT</td>
<td>Sensor head extension cable, 7.6 m (25')</td>
</tr>
</tbody>
</table>

Comes complete with operator's manual, software, mounting nut, and 3.6V lithium "C" battery assembly.

Ordering Examples: UWIR-2-NEMA, wireless infrared transmitter, UWTC-REC1, 48-channel USB receiver, UWTC-BATT-C, spare battery, and OS100-MB, sensor head bracket. UWIR-2-NEMA, wireless infrared transmitter, UWTC-REC2-D-MA, 48-channel transceiver/host with 1-channel 4 to 20 mA analog output, alarm and local display, UWTC-BATT-C, spare battery, and OS100-MB, sensor head bracket. OMEGACARESM extends standard 1-year warranty to a total of 4 years.

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.

Laser Sight Option

OS100-LS laser sight fits in front of the IR head for accurate positioning.

OS100-LS laser sight fits in front of the IR head for accurate positioning.