

# Non-Contact Infrared-to-Analog Converter Module

## Converts IR Energy to a Thermocouple Signal!

**Unit Features Miniature, Portable Design and Built-In Circle/Dot Laser Sighting!**

**PATENTED**  
Covered by U.S. and International patents and pending applications.



- ✓ Works Directly with All Type K Thermocouple Meters
- ✓ Non-Contact IR Temperature Measurement
- ✓ Pocket-Size Portability and Battery Powered
- ✓ -18 to 538°C (0 to 1000°F) Range
- ✓ Built-In Patented Laser Dot/Circle Sighting
- ✓ Adjustable Emissivity 0.1 to 1.0
- ✓ Low Battery Indicator

The low-cost, battery-powered OSM101 infrared-to-analog converter module is a portable, miniature design unit that converts the non-contact infrared energy to a compensated Type K thermocouple output which can go to any thermocouple metering device for display or recording. The unit has a unique built-in laser circle/dot sighting for ease of aiming.

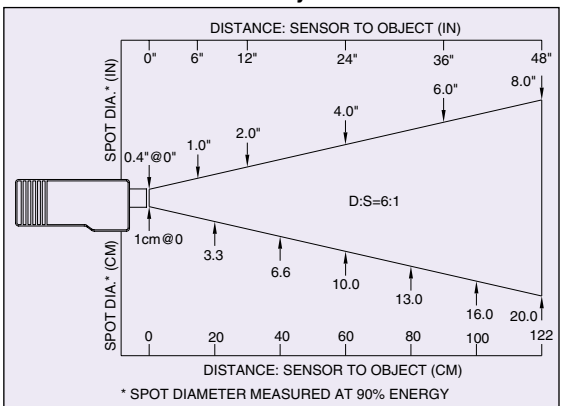
### Specifications

**Temp Range:** -18 to 538°C (0 to 1000°F)  
**Accuracy:** ±3% of reading or 2.2°C (4°F)  
**Repeatability:** ±1% of reading  
**Spectral Response:** 5 to 14 microns  
**Optical Field of View:** 6:1 (distance/spot size)  
**Open Aperture:** 10 mm (0.4")  
**Response Time:** 150 msec (0 to 63% of final value)  
**Emissivity:** Adjustable from 0.1 to 1.00  
**Analog Output:** Type K thermocouple (compensated)

### Output Connection:

Universal Type K female accepts both miniature and standard male Type K connectors  
**Power:** 3.5V lithium battery, ("AA"), 1900 mAh, (included)  
**Low Power Indicator:** Flashing LED  
**Ambient Operating Conditions:** 0 to 50°C (32 to 122°F); less than 95% RH (non-condensing)  
**Dimensions:** 116 L x 47 W x 27 mm D (4.6 x 1.84 x 1.07")  
**Weight:** 100 g (0.22 lb)  
**Sighting Type:** Built-in laser (circle/dot combined)  
**Laser Wavelength (Color):** 630-670 nm (red)  
**Max Laser Power:** Less than 1 mW  
**Safety Classification:** Class 2  
**Beam Diameter:** 5 mm (0.2")  
**Beam Divergence:** Less than 2 mrad  
**Laser Power Switch:** Momentary  
**Laser Power Indicator:** Flashing red LED

Each unit comes complete with IR-to-Analog converter module, Type K retractable cable, lithium battery, and user's manual with emissivity chart.



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.

To Order			
Model No.	Thermocouple Output Type	Temperature Range	
		°C	°F
OSM101	Type K	-18 to 538	0 to 1000

Accessories	
Model No.	Description
OM-NOMAD-BATT	3.6V "AA" lithium replacement battery
SC-HH500	Soft carrying case (black)

Comes complete with IR-to-Analog converter module, Type K retractable cable, lithium battery, and user's manual with emissivity chart.

**Ordering Examples:** OSM101, infrared pyrometer to Type K thermocouple converter, SC-HH500, soft carrying case and OM-NOMAD-BATT, spare battery.  
 OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years.