

# Non-Contact Infrared-to-Analog Converter Module



## Converts IR Energy to a Thermocouple Signal!



Shown Actual Size



**OMEGASCOPE®**

Model OSM101

**\$115**

Basic Unit

Each unit comes complete with IR-to-Analog converter module, type-K retractable cable, lithium battery, and users manual with emissivity chart

- ✓ 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

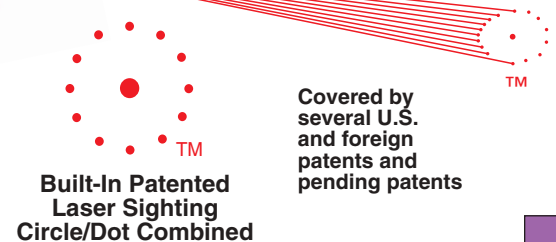
### Unit Features Miniature, Portable Design and Built-In Dot/Circle Laser Sighting!

The low-cost, battery-powered Model OSM101 Infrared-to-Analog Converter Module is a portable, miniature design unit that converts the non-contact infrared energy to a compensated K-type 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:** 8 to 14 microns  
**Optical Field of View:** 6:1 (Distance/Spot Size)  
**Response Time:** 150 msec (0 to 63% of final value)  
**Emissivity:** Adjustable from 0.1 to 1.00  
**Analog Output:** K-type Thermocouple (Compensated)  
**Output Connection:** Universal Type-K Female accepts both miniature and standard male Type-K connectors  
**Power:** 3.5V Lithium Battery, (AA), 1900mAh

**Low Power Indicator:** Flashing LED  
**Ambient Operating Conditions:** 32 to 122°F (0 to 50°C); less than 95% RH (Non-Condensing)  
**Dimensions:** 2.5 x 5 x 10 cm (1" H x 2" W x 4" D)  
**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 3A  
**Beam Diameter:** 5 mm  
**Beam Divergence:** Less than 2 mrad  
**Laser Power Switch:** Momentary  
**Laser Power Indicator:** Flashing Red LED

To Order (Specify Model Number)				
Model Number	Price	Thermocouple Output Type	Temperature Range	
			°C	°F
OSM101	\$115	Type-K	-18 to 538	0 to 1000

**Ordering Example:** OSM101; Infrared Pyrometer to Type-K Thermocouple Converter, \$115; SC-HH500, soft carrying case, \$12; OM-NOMAD-BATT, spare battery, \$12; \$115 + 12 + 12 = \$139

#### Accessories

Model Number	Price	Description
OM-NOMAD-BATT	\$12	Replacement battery
SC-HH500	12	Soft carrying case (black)

### See OMEGA's New OMEGASAYS® Talking and Seeing DMM/Thermometer/IR Pyrometer

- ✓ Complete System Includes OSM101 Module Shown Above
- ✓ Voice Annunciation in a Choice of 5 Languages
- ✓ 4 Digit Temperature Display
- ✓ Differential Temperature Measurement

Model HHM2-IR  
**\$349**  
 Complete



See page J-16A for complete details

Patented.