

# Non-Contact Infrared-to-Analogue Converter Module

## Converts IR Energy to a Thermocouple Signal!



OSM101, £77, shown actual size.

**OMEGASCOPE®**  
OSM101



**Built-In Patented Laser Sighting Circle/Dot Combined**

Energy  
Zone

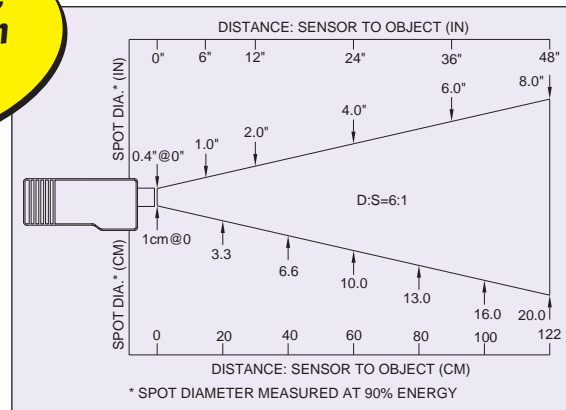
TM

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

**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

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



**Analogue Output:** Type K thermocouple (compensated)  
**Output Connection:** Universal Type K female accepts both miniature and standard male Type K connectors  
**Power:** 3.5 V 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:** 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 (Colour):** 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

The low-cost, battery-powered OSM101 infrared-to-analogue 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

**AVAILABLE FOR FAST DELIVERY!**

### To Order (Specify Model Number)

Model No.	Price	Thermocouple Output Type	Temperature Range	
			°C	°F
OSM101	£77	Type K	-18 to 538	0 to 1000

**Ordering Examples:** OSM101, infrared pyrometer to Type K thermocouple converter, £77. SC-HH500, soft carrying case, £8. OM-NOMAD-BATT, spare battery, £8. = £93

### Accessories

Model No.	Price	Description
OM-NOMAD-BATT	£8.00	Replacement battery
SC-HH500	8.00	Soft carrying case (black)