COMPACT NON-CONTACT INFRARED TEMPERATURE SENSOR/TRANSMITTER

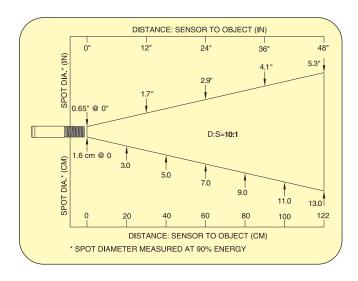






Each unit includes 2 hex mounting nuts, 1.8 m (6') shielded cable and operator's manual.

- 3 Temperature Ranges Available: 0S137-1: 0 to 100°C (32 to 212°F) 0S137-2: -18 to 260°C (0 to 500°F) 0S137-3: -18 to 538°C (0 to 1000°F)
- Sensor and Transmitter Combined
- Adjustable Emissivity
- Adjustable Alarm Setpoint and Output
- Packaged into a 25 mm (1.0") OD by 127 mm (5.0")
 Long Stainless Steel NEMA 4 Rated Housing
- 10:1 Optical Field of View
- 4 to 20 mA, 0 to 5 Vdc, 0 to 10 Vdc, 10 mV/Deg, and Type K Thermocouple Outputs Available



Omega's new compact high performance industrial infrared sensor/ transmitter model OS137 provides variety of features and options packaged into a small stainless steel housing. The standard features are adjustable emissivity, 10 to 1 optical field of view, adjustable alarm set point and voltage output to drive external relays, and 6 pre-selected analog outputs that can easily be interfaced to all meters, controllers, dataloggers, recorders, computer boards, and PLCs. The unit comes with 2 hex nuts, 1.8 m (6') shielded cable for power and output connections, and complete operator's manual.

SPECIFICATIONS

Temp Range:

0\$137-1: 0 to 100°C (32 to 212°F) **0\$137-2**: -18 to 260°C (0 to 500°F) **0\$137-3**: -18 to 538°C (0 to 1000°F)

Accuracy: 1.5% rdg or 3.5°F (2°C)

whichever is greater

Repeatability: 1% rdg or 2°F (1°C)

Field of View: 10 to 1

Spectral Response: 5 to 14 microns **Emissivity:** 0.4 to 1.0, adjustable via a

single turn pot

Response Time: 150 msec, 0 to 63% of final value

Outputs:

-MA: 4 to 20 mA -V1: 0 to 5 Vdc -V2: 0 to 10 Vdc -K: K thermocouple -MVF: 10 mV/°F -MVC: 10 mV/°C

Alarm Output: Voltage, 100 mA drive Alarm Set Point: 0 to 100 % adj,

set via pot

Power: 12 to 24 Vdc @ 50 mA
Operating Temperature:
With No Cooling: 0 to 70°C
With Water Cooling: 0 to 200°C
With Air Cooling: 0 to 110°C
Operating Relative Humidity:
Less than 95% RH, non-condensing

Housing: Stainless steel,

Nema 4 and IP65

Dimensions: 25.4 OD x 127 L mm

 $(1 \times 5")$

Weight: 226 g (0.5 lbs)

LASER SIGHTING

Wavelength (Color): 630-670 nm (red) **Operating Distance:** Up to 9.1 m (30')

Max Laser Power Output:

Less than 1 mW

European Classification: Class 2, EN60825-1/11.2001

FDA Classification: Class II, complies

with 21 CFR 1040.10

Laser Beam Diameter: Less than 5 mm Beam Divergence: Less than 2 mrad Power Switch: Slide switch on the

battery pack

Power Indicator: Red LED
Caution and Certification Label:
Located on the head circumference
Aperture and Identification Label:
Located on the head circumference





CNi8DH shown actual size.

To Order (Specify	/ Model Numi	MOST POPULAR MODELS HIGHLIGHTED!
MODEL NO.	PRICE	DESCRIPTION
OS137-(*)-MV-F		Infrared transmitter with 10 mV/°F output
OS137-(*)-MV-C		Infrared transmitter with 10 mV/°C output
OS137-(*)-MA		Infrared transmitter with 4 to 20 mA output
OS137-(*)-V1		Infrared transmitter with 0 to 5 Vdc output
OS137-(*)-V2		Infrared transmitter with 0 to 10 Vdc output
OS137-(*)-K		Infrared transmitter with K T/C output

^{*} Insert "1" for 0 to 100°C (32 to 212°F); Insert "2" for -18 to 260°C (0 to 500°F); Insert "3" for -18 to 538°C (0 to 1000°F).

Ordering Examples: OS137-1-MA, infrared transmitter with temperature range of 0 to 100°C (32 to 212°F) and 4 to 20 mA output, OS137-1-V1, CNi8DH33 and PSR-24S, infrared transmitter with temperature range of 0 to 100°C (32 to 212°F) and 0 to 5 Vdc output, and ½ DIN temperature controller and 24 Vdc regulated power supply

Accessories

MODEL NO.	PRICE	DESCRIPTION
OS137-MB		Mounting bracket
OS137-AP		Air purge collar
OS137-WC		Water/air cool jacket
OS137-LS		Laser sighting
PSR-24S		Regulated power supply, 24 Vdc, 400 mA, screw terminal
PSR-24L		Regulated power supply, 24 Vdc, 400 mA, UL, stripped leads
PSR-24L-230		Regulated power supply, 24 Vdc, 400 mA, 6' cord with stripped leads, 230 Vac input, CE
PSU-93		Unregulated power supply, 16 to 23 Vdc, 300 mA max, screw terminal
CAL-3-IR		NIST-traceable calibration

[†] OS137-LS laser sighting: 1 unit suitable for aligning multiple heads. Used during installation only. Ordering Example: OS137-MB, mounting bracket