

Miniature Low Cost Non-Contact IR Temperature Sensor/ Transmitter with built-in LED display



OS102-MV-(*)
\$270
 Basic Unit



Each OS102 comes complete with sensor head and 1.8 m (6') cable, sensor head mounting nut, main electronics housing and operator's manual

Shown smaller than actual size

Strain relief port for power and output leads

Field of View: 6:1
Open Aperture: 10 mm (0.4")
Ambient Operating Range:
 Main electronics: 0 to 50°C (32 to 122°F)
 Sensor head: 0 to 70°C (32 to 158°F)
 High temp sensor head option (-HT): 0 to 85°C (32 to 185°F)
 Sensor Head with Water Cool Jacket: 0 to 200°C (32 to 392°F)
Power: 12 to 24 Vdc
Alarm: Adjustable, open drain (100 mA)
Temperature Range: -18 to 538°C (0 to 1000°F)

Transmitter Output:
 1 mV/deg, 0 to 5 Vdc or 4 to 20 mA.
 Internal screw terminal corrections
Display: Built-in LED, °F/°C switchable
Electronics Housing: NEMA-4, diecast aluminum
Sensor Head Cable Length: 1.8 m (6') standard
Box Dimensions: 11.4 x 6.3 x 5.6 cm (4.5" x 2.5" x 2.2")
Weight: 300 g (0.66 lb)
Sensor Head: 2.5 dia. x 6.3 cm long (1" x 2.5") with 1/8-16 UNF thread

- ✓ -18 to 538°C (0 to 1000°F) Range
- ✓ Adjustable Emissivity From 0.10 to 1.0
- ✓ Fast, Accurate, Repeatable Readings
- ✓ Built-in °F/°C Switchable LED Display
- ✓ 0 to 5 Vdc, 4 to 20 mA or 1 mV/Deg. Analog Outputs Available
- ✓ Rugged, Miniature Industrial Design with Remote Sensor Head
- ✓ User Adjustable High or Low Alarm Standard
- ✓ NEMA-4 Metal Housing

OMEGA's new low cost OS102 Series mini infrared transmitter system features a remotely mounted infrared temperature sensor and high performance microprocessor based signal conditioner with built-in LED display. The OS102's miniature sensor head design is ideal for measuring temperature in confined, hard-to-reach places and harsh environments. The sensor head is connected to the main electronics housing via a 1.8 m (6') shielded cable standard on all models. The signal conditioners main electronics are mounted in a rugged NEMA-4 rated diecast aluminum housing and feature adjustable emissivity, linear voltage, current output calibrated for the temperature range of -18 to 538°C (0 to 1000°F). A user adjustable high/low alarm output is standard on all models.

Specifications

Accuracy: ±2% of reading or 4°F whichever is greater
Repeatability: ±1% of reading
Spectral Response: 8-14 μm
Response Time: 150 mSec (0 to 63% of final reading)
Emissivity Range: 0.10 to 1.0



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)		
Model Number	Price	Description
OS102-MV-(*)	\$270	Transmitter with 1 mV/°C or °F out & LED
OS102-V1	270	Transmitter with 0 to 5 Vdc output & LED
OS102-MA	320	Transmitter with 4 to 20 mA output & LED
Models with High Temperature Sensing Head		
OS102-MV-(*)-HT	\$370	Transmitter with 1 mV/°C or °F output
OS102-V1-HT	370	Transmitter with 0 to 5 Vdc output
OS102-MA-HT	420	Transmitter with 4 to 20 mA output

(* Insert F for mV/°F or C for mV/°C output
Ordering Example: OS102-MA + OS100-LS + OS100-CA15FT, is a transmitter with 4 to 20 mA output, laser sighting accessory and (4.6 m) 15' sensor head extension cable, \$320 + 175 + 35 = \$530.

Accessories

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Model Number	Price	Description
OS100-MB	\$20	Mounting Bracket
OS100-DR	25	DIN Rail Mounting Adaptor
OS100-AP	30	Air Purge Collar
OS100-WC	175	Water Cooling Jacket, up to 200°C
OS100-LS	175	Laser Sighting Accessory
OS100-CA15FT	35	Sensor Head Extension Cable 4.6 m (15')
OS100-CA25FT	45	Sensor Head Extension Cable 7.6 m (25')
TX8-100	45.50	Power / Output Cable 30 m (100')
PSU-93	40	24 Vdc Power Supply
CAL-3-IR	125	NIST Traceable Calibration