Convir **OS102 Series Low Cost** Non-Contact **Temperature** Sensor with **Built-in LED Display**

- ◆ -18 to 538°C Range
- ◆ Adjustable Emissivity From 0.10 to 1.0
- ◆ Fast, Accurate, Repeatable Readings
- ◆ Built-in °F/°C Switchable LED Display
- ♦ 0 to 5 V DC, 4 to 20 mA or 1 mV/Deg. Analogue Outputs Available
- ◆ Rugged, Miniature Industrial Design with Remote Sensor
- ◆ User Adjustable High or Low Alarm Standard
- ◆ IP65 Metal Housing

The new Convir OS102 Series temperature measurement 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 shielded cable, standard on all models.

The signal conditioner's main electronics are mounted in a rugged IP65 rated diecast aluminum housing and feature adjustable emissivity and linear voltage or current output calibrated for the temperature range of -18 to 538°C. A user adjustable high/low alarm output is standard on all models.

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GENERAL SPECIFICATIONS

Accuracy ±2% of reading or 2°C whichever is greater Repeatability ±1% of reading **Spectral Range** 8 to 14 µm Response Time 150 ms (0 to 63% of final reading) **Emissivity Range** 0.10 to 1.0 Field of View 6:1 **Open Aperture** 10 mm **Ambient Operating Range**

Main electronics 0 to 50°C Sensor head 0 to 70°C High temp sensor head option (-HT) 0 to 85°C Sensor Head with Water Cool Jacket 0 to 200°C

12 to 24 V DC Power Adjustable, open drain (100 mA) Alarm

Temperature Range -18 to 538°C

Transmitter Output 1 mV/deg, 0 to 5 V DC or 4 to 20 mA Built-in LED, °F/°C switchable Display

Electronics Housing IP65 diecast aluminium Sensor Head Cable Length 1.8 m standard **Dimensions** 11.4 x 6.3 x 5.6 cm

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Sensor Head 2.5 dia. x 6.3 cm long with $\frac{3}{4}$ -16 UNF thread

ACCESSORIES

| Model Number | Description |
|--------------|-----------------------------------|
| OS100-MB | Mounting Bracket |
| OS100-DR | DIN Rail Mounting Adaptor |
| OS100-AP | Air Purge Collar |
| OS100-WC | Water Cooling Jacket, up to 200°C |
| OS100-LS | Laser Sighting Accessory |
| OS100-CA15FT | Sensor Head Extension Cable 4.6 m |
| OS100-CA25FT | Sensor Head Extension Cable 7.6 m |
| TX8-100 | Power / Output Cable 30 m |
| PSU-93-UK | DC Power Supply with UK Plug |
| PSU-93-EU | DC Power Supply with Euro Plug |
| CAL-80-IR | Traceable Calibration Certificate |

TO ORDER (SPECIFY MODEL NO.)

| TO ORDER (STECHT MODEL NO.) | |
|---|---------------------------------------|
| Model Number | Description |
| OS102-MV-(*) | Transmitter with 1 mV/°C or °F output |
| OS102-V1 | Transmitter with 0 to 5 VDC output |
| OS102-MA | Transmitter with 4 to 20 mA output |
| Models with High Temperature Sensing Head | |
| OS102-MV-(*)-HT | Transmitter with 1 mV/°C or °F output |
| OS102-V1-HT | Transmitter with 0 to 5 VDC output |
| OS102-MA-HT | 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 sensor head extension cable