# Convir OS1592 Series Infrared Fibre-Optic Temperature Sensor with Local Display and Analogue Output

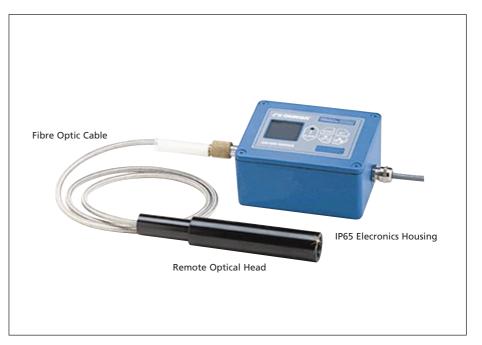
- For Both Hard to Reach and Polymer Bolt Applications
- ◆ Accuracy 1% of Reading
- ♦ Models with Temperature Ranges Measuring up to 2482°C
- ◆ Isolated Analogue Output, mV, °C or °F, and either Current, Voltage, Millivolt or Thermocouple Output
- ◆ °C/°F Keypad Selectable
- Local Backlit LCD Display Standard
- ◆ Visual Alarm and Built-In Relay
- Dual Display Indicates Current plus Min, Max, or Differential Temperatures
- ◆ Emissivity Adjustable from 0.05 to 1.00 in 0.01 Steps via the Keypad
- ◆ 25 ms Response (0 to 63% of Final Value)
- ◆ Complete IP65 System
- ◆ Safe and Easy to Install
- ◆ Dual Analogue Outputs Isolated from Power Supply Input

The new Convir OS1592 Series infrared fibre optic temperature measurement system measures temperature ranges up to 2482°C and provides dual analogue outputs (4 to 20 mA, 0 to 5 V DC, 0 to 10 V DC, 1 mV/Deg, J, K T/C) electrically isolated from the DC power supply input.

The main electronics is in an IP65 rated aluminium housing with a local backlit LCD, built-in relay, alarm LED, and a 4-position programmable keypad.

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### **GENERAL SPECIFICATIONS**

**Temperature Range** 

 -R1
 260 to 538°C

 -R2
 538 to 1093°C

 -R3
 1093 to 2482°C

 Accuracy
 1% of rdg

 Repeatability
 0.75% of rdg

**Response Time** 25 ms (0 to 63% of final value) **Emissivity** 0.05 to 1.00 adjustable, set via keypad

Spectral Response0.8 to 1.8 μmAnalogue Output1 mV/deg, standard

Second Analogue Output 0 to 5 V DC, 0 to 10 V DC, 4 to 20 mA, or Type

J or K thermocouple Backlit Dual LCD

**Keypad** 4 position, tactile feedback membrane switch

Calculated Temperature Values Maximum, minimum, differential High Alarm Set via keypad with built-in relay

Relay Contact Rating 5 A, 28 V DC
Power 18 to 36 V DC
Operating Ambient Temperature 0 to 50°C

Enclosure Die cast aluminium, IP65

**Dimensions** 

Display

**Main Housing** 8.9 W x 5.6 H x 11.4 L cm

**Optical Assembly** 

 L1- Lens
 2.5 Dia. x 15.9 cm

 L2- Ceramic Tip
 0.47 Dia. x 15.2 cm

 L3- Polymer Bolt
 0.95 Dia. x 10 cm



# **ACCESSORIES**

Accessories	Description		
OS1500-BLS	Backlight Source		
OS1500-BLF	Backlight Fibre Assembly to use with OS1500-BLS		
OS1500-RC	Replacement Bulb		
OS1592-MB	Mounting Bracket		
OS1592-API	Air Purge Collar		
DRN-PS-1000	DIN Rail Mount Power Supply. 90 to 240 V AC Input. 24V 1A DC Output		

# TO ORDER (SPECIFY MODEL NO.)

Model Number		Opt. Assy. (Spot Size)	Cable Length <sup>†</sup>
OS1592-L1-R1-1-*	260 to 538°C	Lens Probe (6mm @ 200mm)	1.5 m
OS1592-L2-R1-*	260 to 538°C	Ceramic Tip, 150mm Probe	1.5 m
OS1592-L3-R1-*	260 to 538°C	Polymer Bolt, 100mm Probe	1.5 m
OS1592-L1-R2-1-*	538 to 1093°C	Lens Probe (6mm @ 200mm)	1.5 m
OS1592-L1-R2-2-*	538 to 1093°C	Lens Probe (4.8mm @ 500mm)	1.5 m
OS1592-L1-R2-3-*	538 to 1093°C	Lens Probe (1.9mm @ 150mm)	1.5 m
OS1592-L2-R2-*	538 to 1093°C	Ceramic Tip, 150mm Probe	1.5 m
OS1592-L3-R2-*	538 to 1093°C	Polymer Bolt, 100mm Probe	1.5 m
OS1592-L1-R3-2-*	1093 to 2482°C	Lens Probe (4.8mm @ 500mm)	1.5 m
OS1592-L1-R3-3-*	1093 to 2482°C	Lens Probe (1.9mm @ 150mm)	1.5 m



The unit provides two separate analogue outputs. The first is 1mV/Deg. The second is specified -\* , where: - mA = 4-20 mA output; - V1 = 0/5 Vdc output; - V2 = 0/10 Vdc output; - K = 1 Thermocouple output, K = 1 Thermocouple output,