

Infra Red Non - Contact Thermometers

Convir Pyropen Handheld Infrared Thermometer

- Conveniently clips into your pocket just like a pen
- Unique ultra compact design
- Wide temperature range
- High accuracy and repeatability
- Fast response
- Displays maximum, minimum, average and current temperatures
- Narrow field of view
- Optional laser sighting
- Optional data logging & data acquisition



Convir ST880 Series Low Cost Handheld Infrared Thermometer

- Measure temperature of hot or moving objects from a safe distance
- Easy and safe to use Unique, modern and compact design
- Built-in laser pointer to improve aim
- Narrow field of view
- Backlit display with Data Hold
- °C/°F switchable
- Auto-hold and power off
- Soft carrying case



Convir ST8818 Series Professional Low Cost Handheld Infrared Thermometer

- Wide temperature range of -50.0°C to 550°C (ST8818) or -50.0°C to 1000°C (ST8828)
- Built-in laser pointer to improve aim
- Narrow 12:1 field of view
- Backlit display with Data Hold
- °C/°F switchable
- Auto-hold and power off
- Automatic Range Selection and Resolution
- Soft carrying case (ST8818) or hard carrying case (ST8828)



Convir Thermosight Series High Performance Handheld Infrared Thermometer

- Temperature ranges from -32°C to 1800°C
- Adjustable emissivity from 0.20 to 1.00
- Backlit LCD display
- Display indicates instantaneous, max, min, average or difference temperatures
- Built-in laser sighting
- °C/°F selectable
- 1 mV/Degree analogue output available
- Integral tripod mount
- RS-232 interface available
- Temperature data storage available
- Trigger lock
- Hard carrying case



SOUTHERN TEMPERATURE SENSORS LTD.

Temperature Sensors, Accessories and Components

Unit 6, Weyside Park, Newman Lane, Alton, HANTS GU34 2PJ Tel: 01420 541422 Fax: 01420 541433
Email: enquiries@southerntemp.co.uk Website: www.southerntemp.co.uk

Infra Red Non—Contact Thermometers

Convir ST8833 Low Cost Handheld Infrared Thermometer with Thermocouple Input

- Temperature range from -50°C to 800°C
- Input for type K thermocouple
- Adjustable emissivity
- High and low alarms
- Built-in laser sighting
- Narrow 13:1 field of view
- Backlit display with Data Hold
- °C/°F switchable
- Auto power off



Convir ST8839 Professional Handheld Infrared Thermometer

- Temperature range from -50°C to 1000°C
- Adjustable emissivity
- Built-in laser sighting to improve aim
- Narrow 50:1 field of view
- Backlit display with Data Hold
- °C/°F switchable
- Fast sampling time
- Auto-hold and power off



Convir EL Series Low Cost Non-Contact Temperature Sensor with 4 to 20mA, Voltage or Thermocouple Outputs

- High quality, low cost, compact sensor
- 2-wire units with a 4-20 mA output, or 4-wire units with voltage or thermocouple outputs
- Measures temperatures from -20°C to 500°C, accurately and consistently
- Response time: 200 ms to 90%
- 2:1 optics (EL21) for applications where the sensor is mounted close to the target
- 10:1 optics (EL101) to suit most applications
- 30:1 optics (EL301) for small or distant targets
- Rugged IP65 stainless steel housing for strength and hygiene
- Optional mounting brackets, laser sighting tool, air purge collar and air/water cooled housing



Convir IL Series PC Configurable Non-Contact Temperature Sensor with 4 to 20mA Output

- High quality, low cost, compact sensor
- 2-wire units with a 4-20 mA output, or 4-wire units with voltage or thermocouple outputs
- Measures temperatures from -20°C to 500°C, accurately and consistently
- Response time: 200 ms to 90%
- 2:1 optics (EL21) for applications where the sensor is mounted close to the target
- 10:1 optics (EL101) to suit most applications
- 30:1 optics (EL301) for small or distant targets
- Rugged IP65 stainless steel housing for strength and hygiene
- Optional mounting brackets, laser sighting tool, air purge collar and air/water cooled housing
- Configurable temperature range, emissivity setting etc. from a PC via CalexLink software (supplied)
- Features max; min; average and instantaneous readings; peak or valley hold
- No interface cable, adaptor or external power required for configuration.
- Two-wire, 4-20 mA output
- Measures temperatures from -40°C to 500°C accurately and consistently
- Field of view: 10:1 (IL101) or 30:1 (IL301)
- Response time: 200 ms to 90%
- Rugged IP65 stainless steel housing for strength and hygiene
- Optional mounting brackets, laser sighting tool, air purge collar and air/water cooled housing



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Convir CL Series Non-Contact Temperature Sensor with mV or Thermocouple Output

- Measuring ranges: 0 to 650°C / 32 to 932°F
- Output: 10 mV / °C, thermocouple K or J
- 10 versions
- Operating temperature up to 270°C / 518°F
- Stainless steel housing
- Easy connection and mounting



Convir TL Series High Performance Non-Contact Infrared Temperature Sensor

- Temperature ranges to 2500°C
- Adjustable emissivity from 0.05 to 1.00
- Accuracy to $\pm 0.5\%$
- 4 to 20 mA output
- Fast 20 ms response time
- Configurable via optional software and RS-232 or USB interface cable
- Manual emissivity adjustment available
- Large choice of optics
- Different spectral ranges available to suit all applications



Convir DL Series Non-Contact Temperature Switch

- Temperature range up to 1500°C
- Relay switch output
- 1 ms response time
- Narrow 66:1 field-of-view
- LED pilot light



Convir MLE Series Two-Piece Non-Contact Temperature Sensor

- Miniature sensing head withstands 70°C ambient]
- Current, voltage or thermocouple outputs
- Measures temperatures from -20°C to 500°C, accurately and consistently
- Response time: 200 ms to 90%
- 2:1 optics (MLE21) for applications where the sensor is mounted close to the target
- 10:1 optics (MLE101) to suit most applications
- 30:1 optics (MLE301) for small or distant targets
- Rugged IP65 stainless steel sensing head for strength and hygiene
- Optional mounting brackets, laser sighting tool and air purge collar



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Infra Red Non—Contact Thermometers

Convir VL Configurable Two-Piece Non-Contact Temperature Sensor

- -40°C to 700°C measurement range
- Adjustable emissivity from 0.1 to 1.00
- Choice of 0/4 to 20 mA, 0 to 5 V and type J or K thermocouple outputs
- Backlit LCD display
- Miniature sensing head
- RS-485 interface
- Configurable relay output



Convir FL Series Non-Contact Fibre-Optic Temperature Sensor

- Especially suited for temperature measurement:
 - With vacuum-equipment
 - In hazardous areas
 - In induction heating processes
 - Of metal surfaces, ceramics and many others
- Temperature range from 400°C to 1200°C
- Adjustable emissivity from 0.2 to 1.00
- Adjustable optics
- LED pilot-light
- Optical unit operates in ambient temperatures up to 250°C
- Response time of 1ms



Convir PRO 40 and 50 Series Single- Wavelength Infrared Temperature Sensors

- Temperature ranges to 2475°C
- Fully configurable for range, emissivity, peak hold, averaging, alarm parameters and set points via RS-232/RS-485 communications
- Accuracy to 0.25% of reading
- Different spectral ranges to suit all applications
- Visual aiming or fibre-optic versions
- Short wavelength operation dramatically reduces sensitivity to emissivity variation, dirty optics, optical obstruction, and misalignment.
- Views through common window materials.
- Views through heavy steam without interference.
- Provides precision optics.
- As much as ten times more accurate than long-wavelength sensors when measuring low-emissivity materials such as aluminium, chrome, stainless steel, tin and zinc.



Convir PRO 80 and 90 Series Dual- Wavelength Infrared Temperature Sensors

- Exceptionally broad temperature ranges and low-temperature capability.
- A signal dilution capability as much as 50 times greater than the so-called two-colour technology allows the PRO series sensor to view smaller hot spots, through greater obstructions, with better accuracy.
- Views through optical obstructions such as scale, heavy steam, smoke, water spray, dirty optics, and mechanical obstruction.
- ESP Filtering provides advanced emissivity and signal dilution based signal conditioning and qualification.
- Single-detector design assures long-term calibration stability.
- Self-aligning to the hottest temperature viewed.
- Views through common window materials.



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Convir PRO 100 and 200 Series Multi- Wavelength Infrared Temperature Sensors

- Wide temperature range from 150 to 2475°C
- Industry leading signal dilution capability
- Revolutionary ESP algorithms provide 'aim and read' capability for applications where single and dual wavelength sensors cannot take readings
- Views through obstructions like steam, smoke, plasma, dirty optics, dust and most common window materials
- Can be used in applications with a partially filled field of view caused by mechanical obstructions and a small or wandering target



Convir FTK Fixed Mount Infrared Temperature Calibration Checker

- Accurately check calibration of infrared temperature sensors
- Compact and portable for use anywhere
- Complete kit comes with carrying case, mounting support and power supply



Convir ITC600 Bench-Top Infrared Temperature Calibrator

- Calibrate infrared temperature sensors quickly and accurately
- 100°C to 600°C temperature range
- High $\pm 0.5^\circ\text{C}$ accuracy



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