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

- Configurable temperature range, emissivity setting etc. from a PC via CalexLink software (supplied)
- Features max; min; average and instantaneous readings; peak or valley hold
- ◆ Temperature range -40 to 500°C
- ◆ Emissivity: 0.1 to 1.0
- ◆ Response time: 200 ms to 90%
- ◆ Stainless steel housing
- ◆ Field of view: 10:1 or 30:1
- ◆ 4 to 20 mA output
- ♦ Quick and easy installation
- Optional air/water cooled housings and air purge collars
- ◆ Sealed to IP65

The IL Series is a range of high performance, compact sensors which measure the temperature of inaccessible or moving objects and materials.

They measure temperatures from -40°C to 500°C accurately and consistently, with an outstanding response time of 200 ms. The 4 to 20 mA output is compatible with almost any indicator, controller, recorder, data logger etc. without the need for special interfacing or signal conditioning.

The IL101 has 10:1 optics making it suitable for most applications. The IL301 is specially designed for small or distant targets and has an optical resolution of 30:1.

All IL Series sensors are fully configurable from a PC using CalexLink Software supplied. This user friendly software enables the user to set the range and emissivity; apply filtering; select max, min, average or instantaneous readings; and peak or valley hold processing. Other features include Data Acquisition, Alarms and a Scrolling Graphical Display.

The IL Series Sensors are easy to install and will operate in ambient temperatures up to 50°C. For more hostile environments or difficult mounting conditions a wide range of accessories is available.

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# **GENERAL SPECIFICATIONS**

		Temperature Range (Sub ranges available by PC Configuration)	
		-40°C to 500°C	-20°C to 500°C
Field-of-View	10:1	-	IL101MT-X
	30:1	IL301LT-X	IL301MT-X

Output 4 to 20 mA (linear with temp)

Configuration

Via PC parallel port conforming to IEEE1284

Accuracy

±1% of reading or ±1°C whichever is greater

Repeatability

±0.5% of reading or ±0.5°C whichever is greater

Emissivity 0.1 to 1.0

Response Time, t<sub>90</sub> 200 ms (90% response)

Spectral Range 8 to 14 µm

Supply Voltage 24 V DC (28Vdc max)

# **MECHANICAL**

Construction Stainless Steel

**Dimensions** 25 mm diameter x 108 mm long

Thread mounting M20 x 1 mm pitch

Cable Length 1 m Weight with Cable 175 g

### **ENVIRONMENTAL**

Environmental Rating IP65

Ambient Temperature Range 0°C to 50°C (250°C with cooled housing)

Relative Humidity 95% max. non-condensing

# **ACCESSORIES**

- ◆ Fixed mounting bracket
- Adjustable mounting bracket
- Air purge collar
- Air/water cooled housing
- ♦ Laser sighting tool
- ◆ Portable calibration checker

### **OPTIONS**

- ◆ Longer cable (5 m max.)
- ◆ Certificate of calibration

# DIAMETER OF TARGET SPOT MEASURED VERSUS DISTANCE FROM SENSING HEAD

