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

Model	Convir IL101
Temperature Range	-20°C to 500
Output	4 to 20 mA

Accuracy

Repeatability

Configuration

Emissivity Response Time, t₉₀ Field-of-View **Spectral Range Supply Voltage** Sensor Voltage Max Loop Impedance

0°C o 20 mA (linear with temp) Via PC parallel port conforming to IEEE1284 ±1% of reading or ±1°C whichever is greater ±0.5% of reading or ±0.5°C whichever is greater 0.1 to 1.0 200 ms (90% response)

10:1 nominal 8 to 14 µm 24 V DC (28Vdc max) 9 V DC min 750 Ω

Convir IL301

-20°C to 500°C 4 to 20 mA (linear with temp) Via PC parallel port conforming to IEEE1284 ±1% of reading or ±1°C whichever is greater ±0.5% of reading or ±0.5°C whichever is greater 0.1 to 1.0 200 ms (90% response) 30:1 nominal 8 to 14 µm 24 V DC (28Vdc max) 9 V DC min

MECHANICAL

Construction Stainless Steel **Dimensions** Thread mounting M20 x 1 mm pitch Cable Length 1 m Weight with Cable

IP65

175 g

Stainless Steel 25 mm diameter x 108 mm long 25 mm diameter x 108 mm long M20 x 1 mm pitch 175 g

ENVIRONMENTAL

Environmental Rating Ambient Temperature Range 0°C to 50°C

IP65 0°C to 50°C

750 O

(250°C with cooled housing) (250°C with cooled housing) 95% max. non-condensing 95% max. non-condensing

ACCESSORIES

Relative Humidity

- ◆ 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



