Convir IL Series **High Performance** Non-Contact Temperature Sensors with 4/20mA 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 ٠
- Response time: 150 mSeconds to 95% ٠
- Stainless steel housing
- Field of view: 10:1 or 30:1 ♦ 4-20mA 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 150mSec. The 4/20mA 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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Convir IL101

-20°C to 500°C

Via PC parallel port

whichever is greater

whichever is greater

24Vdc (28Vdc max)

0.1 to 1.0

10:1 nominal

Stainless Steel

8 to 14µm

9Vdc min

M20/1.0

1m

175g

IP65

7500

conforming to IEEE1284

±1% of reading or ±1°C

150mSec (95% response)

±0.5% of reading or ±0.5°C

4 to 20mA (linear with temp)

GENERAL SPECIFICATIONS

Model

Temperature Range Output Configuration

Accuracy

Repeatability

Emissivity Response Time Field-of-View Spectral Response Supply Voltage Sensor Voltage Max Loop Impedance

MECHANICAL

Construction Dimensions Thread mounting Cable Length Weight with Cable

ENVIRONMENTAL

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

Relative Humidity

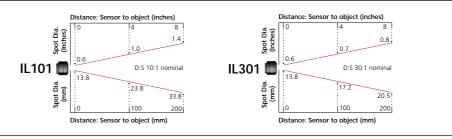
ACCESSORIES

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

DIAMETER OF TARGET SPOT MEASURED VERSUS DISTANCE FROM SENSING HEAD

(250°C with cooled housing)

95% max. non-condensing



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Convir IL301

-20°C to 500°C 4 to 20mA (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 150mSec (95% response) 30:1 nominal 8 to 14µm 24Vdc (28Vdc max) 9Vdc min 750Ω

Stainless Steel 25mm diameter x 108mm long 25mm diameter x 108mm long M20/1.0 1m 175g

> IP65 0°C to 50°C (250°C with cooled housing) 95% max. non-condensing

OPTIONS

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