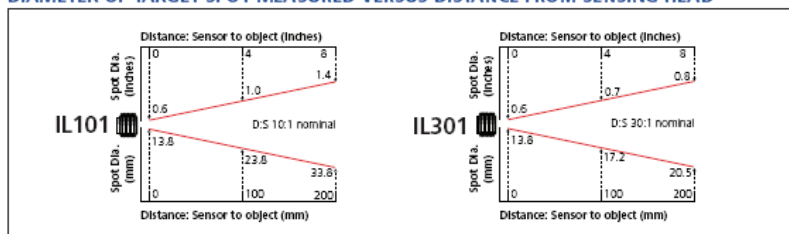


Convir IL Series PC Configurable Non-Contact Temperature Sensor with 4 to 20 mA Output

- 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

DIAMETER OF TARGET SPOT MEASURED VERSUS DISTANCE FROM SENSING HEAD



		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

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.

GENERAL SPECIFICATIONS

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, t90	200 ms (90% response)
Spectral Range	8 to 14 µm
Supply Voltage	24 V DC (28Vdc max)
Sensor Voltage	9 V DC min
Max Loop Impedance	750 ½

MECHANICAL

Construction	Stainless Steel
Dimensions	25 mm diameter x 108 mm long
Thread mounting	M20 x 1 mm pitch
Cable Length	1 metre
Weight with Cable	175 g

ACCESSORIES

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

ENVIRONMENTAL

Environmental Rating	IP65
Ambient Temperature Range	0°C to 50°C
Relative Humidity	95% max. non-condensing

OPTIONS

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



SOUTHERN TEMPERATURE SENSORS LTD.

Temperature Sensors, Accessories and Components

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