



ANALOG LOW-TEMPERATURE FIXED-MOUNTED INFRARED TEMPERATURE SENSOR

MODEL 4000.4ZL

1891 North Oracle Road Tucson, AZ 85705 • P.O. Box 5276 Tucson, AZ 85703-0276
Toll Free: (800) 422-4342 • Phone: (520) 792-4545 • Fax: (520) 792-4546
Internet: EverestInterscience.com • E-Mail: info@EverestInterscience.com

FIXED-MOUNTED IRT SENSOR

The Fixed-Mounted IRT Sensor (Model 4000.4ZL) measures temperatures from -40°C to 100°C or -40°F to 212°F with resolution of 0.1°C or $^{\circ}\text{F}$ and an accuracy of $\pm 0.5^{\circ}\text{C}$ or 1.0°F .

These instruments are housed in stainless steel cases and are sealed. This makes them extremely stable in a variety of environments and applications.

The standard output of the Model 4000.4ZL is Analog Millivolt ($10.0\text{ mV}/^{\circ}\text{C}$). Other optional outputs include 4-20 mA and 0-5 Volt. The standard optics choice is 4° or 15° field of view (FOV).

The Fixed-Mounted IRT is excellent for measuring temperatures in the natural environment, having been developed over a number of years for this purpose.

A ball and socket omni-positional mount is an option for the Model 4000.4ZL. This allows for mounting the unit to a $\frac{1}{4}$ -20 screw and adjusting to any angle for a particular application.

- ANALOG OUTPUT
- SELF-CONTAINED
- PRECISION TEMPERATURE READINGS
- OPTIONAL OUTPUTS OF 4-20 mA or 0-5 V



**ANALOG
LOW-TEMPERATURE
FIXED-MOUNTED INFRARED
TEMPERATURE SENSOR
MODEL 4000.4ZL**

www.EVERESTINTERSCIENCE.com



ANALOG LOW-TEMPERATURE FIXED-MOUNTED INFRARED TEMPERATURE SENSOR SPECIFICATIONS

MODEL 4000.4ZL

1891 North Oracle Road Tucson, AZ 85705 • P.O. Box 5276 Tucson, AZ 85703-0276
Toll Free: (800) 422-4342 • Phone: (520) 792-4545 • Fax: (520) 792-4546
Internet: EverestInterscience.com • E-Mail: info@EverestInterscience.com

TEMPERATURE MEASUREMENT

Scale Range:	-40°C to 100°C or -40°F to 212°F
Resolution:	0.1°C or 0.1°F
Accuracy:	±0.5°C or ±1.0°F
Repeatability:	±0.1°C or ±0.2°F
Temperature:	All Functions in °C or °F
Noise Effective Temperature:	±0.2°C

OPTICAL CONSIDERATIONS

Optical Configuration:	Robust, Aerospace-Quality, Double-Coated Zinc Selenide Optics per Military Specification MIL-C-13508
Spectral Pass Band:	8 < Wavelengths < 14 Microns
Sighting:	Line of Sight
Field of View:	Standard: 4° or 15°

OPERATING CONDITIONS

Operating Environment:	-20°C to 70°C or +14°F to 160°F, up to 99% Relative Humidity, Non-Condensing
Storage Temperature:	Same as Operating Environment Temperature

ELECTRICAL INTERFACE

Power Requirements	5V to 26V DC (Current Draw: 10 mA + Current Signal)
Output Signal:	Standard: Analog Millivolt (10.0 mV/°C) Optional: 4-20 mA; 0-5 Volt

GENERAL

Response Time:	<1 Second
Emissivity Compensation:	0.1 to 0.98 Settable
Operating Distance:	2 cm to 300 Meters
Dimensions:	2" Diameter by 3" Length
Mounting:	Ball & Socket Swivel Mount
Warranty:	One Year Limited Warranty on Parts & Labor

Everest Interscience, Inc., has a policy of continued design upgrade. Therefore, we reserve the right to change specifications without notice.