



SNOW-THERM FIXED-MOUNTED INFRARED TEMPERATURE SENSOR

MODEL 4000 SNOW

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SNOW-THERM IR TEMPERATURE SENSOR

The Model 4000 **SNOW-THERM** is a non-contact infrared temperature sensor that can be fixed-mounted for continual monitoring of snow surfaces. It has a special temperature range of -40°C to 70°C with 0.1°C resolution.

The accuracy of the **SNOW-THERM** is optimized for the application to $\pm 0.3^\circ\text{C}$ from a target temperature of -10°C to a target temperature of +10°C. Under the target temperature of -10°C or over the target temperature of +10°C, the accuracy is $\pm 0.5^\circ\text{C}$. This enhances the accuracy from the normal Model 4000.4ZL in the range of -10°C to +10°C.

The **SNOW-THERM** has a standard Field of View (FOV) of 4°. This sensor can operate in environments from -40°C to 70°C with up to 99% Relative Humidity, Non-Condensing.

The standard output for the **SNOW-THERM** is Analog Millivolt (10.0mV/ °C) with optional outputs of 4-20 mA and 0-5 Volt.

Response time of the instrument is 0.1 Second. This sensor is 2" in diameter by 3" in length. It is mounted with a Ball & Socket Swivel Mount.

The **SNOW-THERM** can read temperatures from 2cm to 300 meters.

- OPTIMIZED TEMPERATURE RANGE
- FIXED-MOUNTED
- ENHANCED ACCURACY
- STAINLESS STEEL CASE
- SEALED CASE AND CONNECTOR
- FOV OF 4 DEGREES
- BALL & SWIVEL MOUNT



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SNOW-THERM FIXED-MOUNTED INFRARED TEMPERATURE SENSOR SPECIFICATIONS

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TEMPERATURE MEASUREMENT

Scale Range:	-40°C to 70°C
Resolution:	0.1°C
Accuracy:	±0.3°C from -10°C to +10°C; ±0.5°C under -10°C or over +10°C
Repeatability:	±0.1°C
Temperature:	All Functions in °C
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°

OPERATING CONDITIONS

Operating Environment:	-40°C to 70°C 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:	0.1 Second
Emissivity Compensation:	0.2 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.