



LOW-TEMPERATURE FIXED-MOUNTED INFRARED TEMPERATURE SENSOR WITH EMBEDDED DATA ACQUISITION/PROCESSING SYSTEM SPECIFICATIONS

MODEL 4500.1ZL

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TEMPERATURE MEASUREMENT

Scale Range:	-40°C to 100°C
Resolution:	0.1°C
Accuracy:	±0.5°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° 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: RS-232C

GENERAL

Response Time:	0.1 Second
Emissivity Compensation:	Preset at 0.98 or End-User's Request
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

EMBEDDED DATALOGGER

Channel:	Single Channel
No. of Records Stored:	Up to 32,000 Date/Time Stamped Records

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