



## SPECIFICATIONS FOR HANDHELD INFRARED TEMPERATURE SENSOR

# INDUSTRA-THERM II™ (100H)

### TEMPERATURE MEASUREMENT

|                                |                                                                      |
|--------------------------------|----------------------------------------------------------------------|
| SCALE RANGE:                   | -40°C TO 1100°C                                                      |
| RESOLUTION:                    | 0.1°C                                                                |
| ACCURACY:                      | ±0.25°C FROM 0°C TO 50°C & ±0.5°C FROM -40°C TO 0°C OR 50°C TO 100°C |
| REPEATABILITY:                 | ±0.1°C                                                               |
| TEMPERATURE:                   | ALL FUNCTIONS IN °C, CORRESPONDING TO VOLTAGE OUTPUT                 |
| NOISE EFFECTIVE TEMPERATURE:   | <0.1°C                                                               |
| TEMPERATURE MEASUREMENT MODES: | SURFACE TEMPERATURE                                                  |

### 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:              | TTL/SLR INTRA-OPTICAL LIGHT SIGHTING: VISIBLE LIGHT ILLUMINATES FIELD OF VIEW (PATENT NO. 4,494,881) |
| ILLUMINATION SOURCE:   | LIGHT EMITTING DIODE- SAFE- NO LASERS!                                                               |
| FIELD OF VIEW:         | VARIABLE FROM 4° TO 20° WITH VARIO-ZOOM™ FIELD-VARIABLE-FOCUS (PATENT NO. 7,355,178)                 |
| DISPLAY:               | NUMERIC LIQUID CRYSTAL DISPLAY ON REAR PANEL                                                         |

### OPERATING CONDITIONS

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| OPERATING ENVIRONMENT: | -20°C TO 65°C OR +14°F TO 150°F, UP TO 99% RELATIVE HUMIDITY, NON-CONDENSING |
| STORAGE TEMPERATURE:   | SAME AS OPERATING ENVIRONMENT TEMPERATURE                                    |

### ELECTRICAL INTERFACE

|                |                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------|
| POWER SOURCES: | RECHARGEABLE NICKEL METAL HYDRIDE BATTERIES<br>10 HOURS CONTINUOUS USE ON FULL BATTERY CHARGE |
| OUTPUT SIGNAL: | ANALOG MILLIVOLT (-40mV TO 1100mV AT 1.0mV/°C)                                                |

### GENERAL

|                                        |                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------|
| RESPONSE TIME:                         | <1 SECOND                                                                                                 |
| EMISSION COMPENSATION:                 | SETTABLE FROM 10% TO 99% ON REAR PANEL                                                                    |
| SKY RADIATION DETECTION/<br>CORRECTION | STANDARD SKY-SPY™ SYSTEM FOR DETECTION & CORRECTION OF UNWANTED SKY RADIATION (U.S. PATENT NO. 4,420,265) |
| OPERATING DISTANCE:                    | 2 CM TO INFINITY                                                                                          |
| EMBEDDED DATA LOGGER (OPTIONAL):       | CUSTOM MADE DATA LOGGER; EASY USB CONNECTION; USES MICROSOFT EXCEL                                        |
| WARRANTY:                              | ONE-YEAR LIMITED WARRANTY ON PARTS AND LABOR                                                              |

EVEREST HAS A POLICY OF CONTINUED DESIGN UPGRADE. THEREFORE, WE RESERVE THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

### EVEREST INFRARED THERMOMETRY

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