



SPECIFICATIONS FOR HANDHELD INFRARED TEMPERATURE SENSOR

AGRI-THERM II™ (100L)

TEMPERATURE MEASUREMENT

SCALE RANGE:	-40°C TO 100°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 10 HOURS CONTINUOUS USE ON FULL BATTERY CHARGE
OUTPUT SIGNAL:	ANALOG MILLIVOLT (-400mV TO 1000mV AT 10.0mV/°C)

GENERAL

RESPONSE TIME:	<1 SECOND
EMISSIVITY COMPENSATION:	SETTABLE FROM 10% TO 99% ON REAR PANEL
SKY RADIATION DETECTION/ CORRECTION	STANDARD SKY-SPY™ SYSTEM FOR DETECTION & CORRECTION OF UNWANTED SKY REFLECTION (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

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