



**VARIO-THERM™**

## **SPECIFICATIONS FOR FIXED-MOUNTED INFRARED TEMPERATURE SENSOR MODEL 6000L**

### **TEMPERATURE MEASUREMENT**

<b>SCALE RANGE:</b>	<b>-40°C TO 100°C</b>
<b>RESOLUTION:</b>	<b>0.1°C</b>
<b>ACCURACY:</b>	<b>±0.5°C</b>
<b>REPEATABILITY:</b>	<b>±0.1°C</b>
<b>TEMPERATURE:</b>	<b>ALL FUNCTIONS IN °C</b>
<b>NOISE EFFECTIVE TEMPERATURE:</b>	<b>±0.2°C</b>

### **OPTICAL CONSIDERATIONS**

<b>OPTICAL CONFIGURATION:</b>	<b>ROBUST, AEROSPACE-QUALITY, DOUBLE-COATED ZINC SELENIDE OPTICS PER MILITARY SPECIFICATION MIL-C-13508</b>
<b>SPECTRAL PASS BAND:</b>	<b>8 &lt; WAVELENGTHS &lt; 14 MICRONS</b>
<b>SIGHTING:</b>	<b>TTL/SLR INTRA-OPTICAL LIGHT SIGHTING (U.S. PATENT NO. 4,494,881)</b>
<b>FOCUS:</b>	<b>FIELD FOCUSABLE, CONVERGING OPTICS FROM 2MM TO 4° USING VARIO-ZOOM™ (U.S. PATENT NO. 7,355,187)</b>

### **OPERATING CONDITIONS**

<b>OPERATING ENVIRONMENT:</b>	<b>-10°C TO 100°C, UP TO 99% RELATIVE HUMIDITY, NON-CONDENSING</b>
<b>STORAGE TEMPERATURE:</b>	<b>SAME AS OPERATING ENVIRONMENT TEMPERATURE</b>

### **ELECTRICAL INTERFACE**

<b>POWER REQUIREMENTS:</b>	<b>5V TO 26V DC 90 VAC - 250VAC, 50/60 HZ</b>
<b>OUTPUT SIGNAL:</b>	<b>STANDARD: ANALOG: MILIVOLT (10mV/°C) DIGITAL: USB 2.0 I<sup>2</sup>C FORMAT OPTIONAL: TYPE K THERMOCOUPLE</b>

### **GENERAL**

<b>RESPONSE TIME:</b>	<b>.10 SECOND</b>
<b>EMISSIVITY COMPENSATION:</b>	<b>PRESET TO 0.97(DEFAULT)/CUSTOMER'S SPECIFICATION</b>
<b>OPERATING DISTANCE:</b>	<b>2 CM TO 300 METERS</b>
<b>DIMENSIONS:</b>	<b>7/8" DIAMETER BY 2-2/3" LENGTH</b>
<b>WARRANTY:</b>	<b>ONE-YEAR LIMITED WARRANTY ON PARTS AND LABOR</b>

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