



## SPECIFICATIONS FOR FIXED-MOUNTED INFRARED TEMPERATURE SENSOR

### SEA-THERM™

OPTIMIZED FOR MEASURING WATER SURFACE TEMPERATURE

#### TEMPERATURE MEASUREMENT

SCALE RANGE:	-10°C TO 70°C
RESOLUTION:	0.1°C
ACCURACY:	±0.3°C FROM -10°C TO 30°C & ±0.5°C OVER 30°C
REPEATABILITY:	±0.1°C
TEMPERATURE:	ALL FUNCTIONS IN °C
NOISE EFFECTIVE TEMPERATURE:	±0.2°C

#### OPTICAL CONSIDERATIONS

SPECTRAL PASS BAND:	8 < WAVELENGTHS < 14 MICRONS
SIGHTING:	LINE-OF-SIGHT
FIELD OF VIEW:	STANDARD: 10° OPTIONAL: 5° AND 2° AVAILABLE AT ADDITIONAL COST

#### OPERATING CONDITIONS

OPERATING ENVIRONMENT:	-40°C TO 100°C UP TO 99% RELATIVE HUMIDITY, NON-CONDENSING
STORAGE TEMPERATURE:	SAME AS OPERATING ENVIRONMENT TEMPERATURE
SEALING:	ONE SOLID BLOCK OF PLASTIC HERMETICALLY SEALED WITHIN A CASE (OPTIONAL : TITANIUM CASE AT NO CHARGE). DOUBLY WATERPROOF. CONNECTOR SYSTEM EXCEEDS COASTGUARD SPECIFICATIONS FOR WATER TIGHTNESS (CFR 46 PART 110.20). SALT SPRAY: MIL-STD202 Method 101D

#### ELECTRICAL INTERFACE

POWER REQUIREMENTS:	4.7V TO 15V DC. 90 VAC - 250 VAC, 50/60 HZ
OUTPUT SIGNAL:	STANDARD: ANALOG: MILLIVOLT (10mV/°C) DIGITAL: I <sup>2</sup> C FORMAT OPTIONAL: TYPE K THERMOCOUPLE

#### GENERAL

RESPONSE TIME:	.75 SECOND
EMISSIVITY COMPENSATION:	PRESET TO SALT WATER EMISSIVITY (0.975)
SKY RADIATION DETECTION/ CORRECTION	STANDARD: SKY-SPY™ SYSTEM FOR DETECTION & CORRECTION OF UNWANTED SKY REFLECTION (CONTACT APPLICATION ENGINEERING)
OPERATING DISTANCE:	2 CM TO 300 METERS
DIMENSIONS:	1" DIAMETER BY 2.5" LENGTH
WARRANTY:	ONE-YEAR LIMITED WARRANTY ON PARTS AND LABOR

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

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