

PROVEN DURABILITY  
AND RELIABILITY FOR  
MARINE ENVIRONMENTS



DIGITAL METERS



RUDDER ANGLE INDICATOR  
SHAFT TACHOMETER  
ENGINE TACHOMETER

## SHAFT TACHOMETER



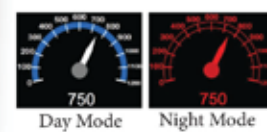
PART NUMBER.  
9999-50920-SAXX



## ENGINE TACHOMETER

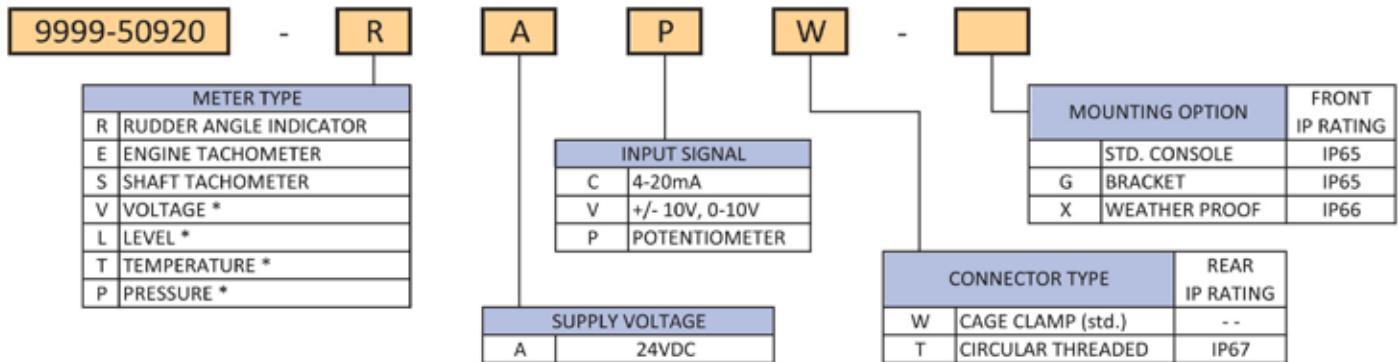


PART NUMBER.  
9999-50920-EAXX



- User configurable Forward/Aft facing meter faces available for Shaft Tachometer and Rudder Angle Indicators.
- Rudder Angle Indicators provide user selectable Up or Down pointing needle.
- Front panel calibration through easy to follow menus.
- On-Console Bracket and In-Console mounting options are available
- Front panel dimming controls allow for easy adjustment of the display backlight to accommodate any ambient lighting condition.
- Night mode displays are provided for additional low level dimming for pilothouse applications.
- Wide selection of user configurable input ranges available for each type of meter application.

## ORDERING INFORMATION BELOW



## SPECIFICATIONS

Power Input Requirements		Display		Environmental	
DC Model:	18-30VDC @ 4W Typ.	Size:	70mm x 52mm active area	Operating Temp:	0 to 50° C
<b>Signal Input</b>		Pixels:	320 x 240	Storage Temp:	-10 to 60° C
Input Impedance:	>100K	Contrast Ratio:	700:1	<b>Protection Level Options</b>	
A/D Converter:	12-BIT	Brightness:	400 cd/m2	<b>Front</b>	<b>Rear</b>
Measurement Accuracy	<±0.1° TYP.	Backlight Type:	LED	IP65 - Standard Console	N/A - Cage Clamp Conn.
Input Isolation:	500V min.	Backlight Life:	50,000 Hours Typical	IP66 - Waterproof	IP67 - Circular Conn.
METER TYPE	PART NUMBER	CONFIGURABLE RANGES	INPUT SIGNALS	CONFIGURABLE SCREENS	
ENGINE TACHOMETER	9999-50920-EAXX	1200,1800,2100 RPM	0-10VDC / 4-20MA	FWD/AFT	UP/DN POINTER
SHAFT TACHOMETER	9999-50920-SAXX	250,350,450,650 RPM	+/- 10VDC / 4-20MA	X	
RUDDER ANGLE INDICATOR	9999-50920-RAXX	35,45,65 DEGREES	+/- 10VDC, 0-10VDC, 4-20MA, POT (1K TO 10K OHM)	X	X

# DIGITAL METERS

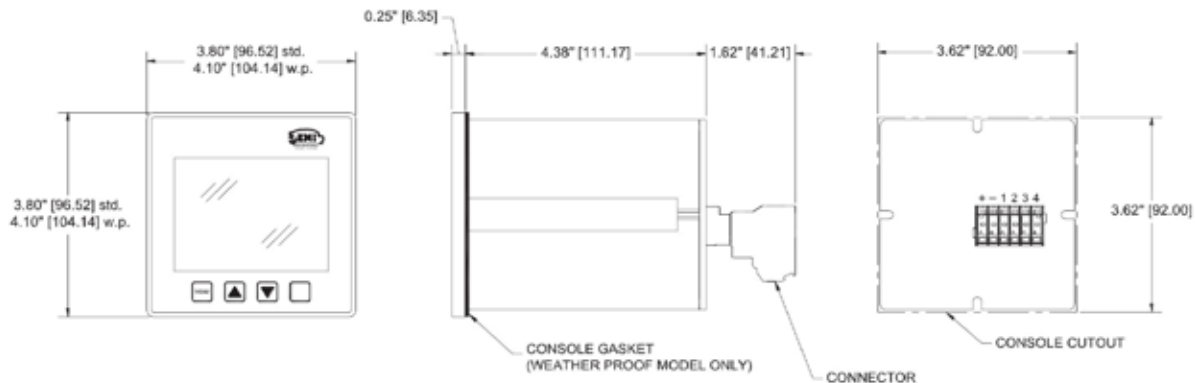
## RUDDER ANGLE INDICATOR

PART NUMBER.  
9999-50920-RAXX

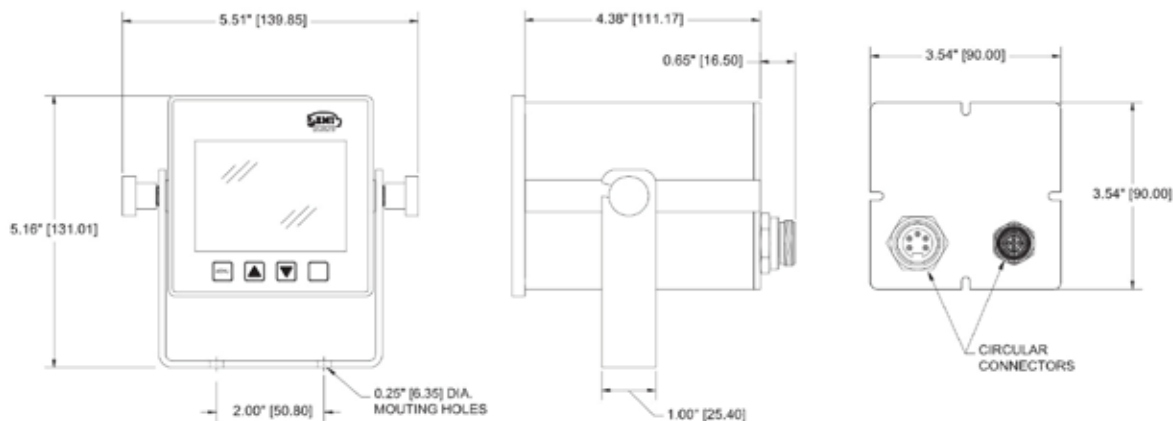


- ▶ EMI digital meters are available for Engine Tachometer, Shaft Tachometer and Rudder Angle Indication. EMI Digital meters feature a bright 3.5 inch TFT color display. Meter readings are displayed in both large easy to read digital and analog formats for viewing up to 15 feet away. Tachometers can be configured for use with input voltage (+/-10V or 0-10V) signals or current signals (4-20ma). In addition to voltage and current signals, Rudder Angle Indicators are configurable for direct connection to rudder feedback potentiometer signals.

### IN-CONSOLE MOUNTING ( STANDARD & WATERPROOF ) SHOWN WITH CAGECLAMP CONNECTOR



### ON-CONSOLE BRACKET MOUNTING SHOWN WITH THREADED CIRCULAR CONNECTORS





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