# SS510 Smart<sup>™</sup> Sensor



Frequencies	Configuration	Beamwidth (@-3 dB)	RMS Power (W)
235 kHz-A	$\bigcirc$	6°	60 W

#### SPECIFICATIONS

Range: 0.5 m to 100 m Resolution: 3 cm Thermistor: 10 kΩ NTC Temperature Sensor Accuracy: ±0.5°C (1.8°F) Data Output Protocol: RS422 and NMEA 0183 Data Update Rate: 1 per second Maximum Depth Range: Up to 100 m (330') Minimum Depth Range: 0.5 m (1.6') Supply Voltage: 6 VDC to 25 VDC (100% output @ 11.5 V) Supply Current: 40 mA maximum RMS Power (W): 60 W Reverse Polarity Protection: Yes Over Voltage Protection: For transients only Cable Type: C33—Shielded twisted pair (2-20 AWG) with braided shield, black neoprene jacket, 6 mm diameter Cable Length: 10 m (33') cable Weight: 1.3 kg Sensor Baud Rate (NMEA 0183 Interface Only): 4,800 bps (can be increased to 38,400 bps with a command) Acoustic Window: Urethane

Do not strike or use solvents (especially acetone) on the transducer face. Use water-based anti-fouling paint only. Do not cut transducer cable.

### DATA OUTPUT PROTOCOL

NMEA 0183* Sentence Structure	
\$SDDBT, DDPTDepth	
\$YXMTW Water Temperature	

\*NMEA 0183 is a serial data bus standard communications protocol that permits different types of electronic equipment to communicate. For more information visit www.nmea.org.

## Directivity Pattern-235 kHz-A









# Smart<sup>TM</sup> Sensor With Embedded Signal Processing

### Applications

- Bridge scour inspection systems
- Portable hydrographic survey

### Features

- Embedded transceiver
- Digital signal processing
- Depth and temperature
- RS422 and NMEA 0183 data output
- Robust stainless steel housing
- Pole mountable for portable apparatus

# Dimensions



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