SS510 Smart™ Sensor

Frequencies	Configuration	Beamwidth (@-3 dB)	RMS Power (W)
235 kHz-A	◯	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

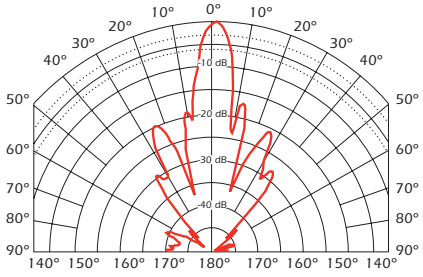
Do not strike or use solvents (especially acetone) on the transducer face. Use water-based anti-fouling paint only. Do not cut transducer cable.

DATA OUTPUT PROTOCOL

NMEA 0183* Sentence Structure
$SDDBT, DDPT.....Depth
$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™ Sensor

With Embedded Signal Processing

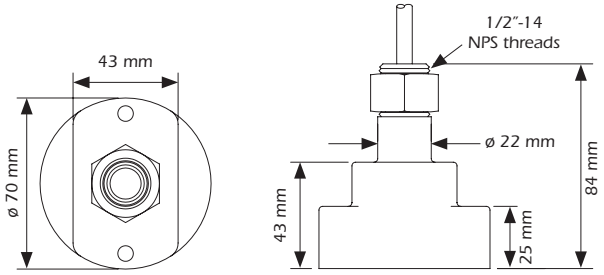
Applications

- 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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