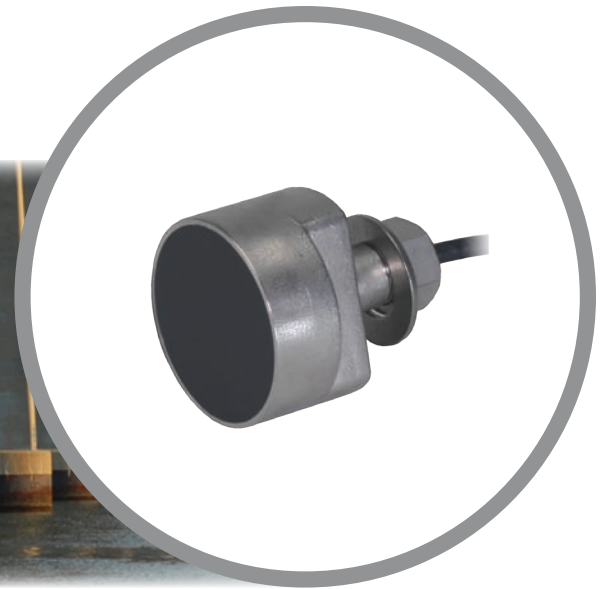


# SS510 Smart™ Sensor



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

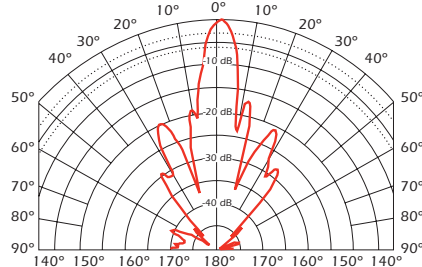
Do not strike or use solvents (especially acetone) on the transducer face. Use water-based anti-fouling paint only. Do not cut transducer cable.

## DATA OUTPUT PROTOCOL

**NMEA 0183\* Sentence Structure**  
**\$SDBT, 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](http://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

