

High-Precision, Low Maintenance

Innovation at its finest! If one consistently demands the best, Airmar's CS4500 Ultrasonic Speed Sensor delivers. Ultra-accuracy is foremost! With no moving parts, the ultrasonic sensor is capable of speed reading accuracy as low as 0.1 knots (0.1 MPH). By eliminating the traditional paddlewheel, there is no fouling, and drag is reduced to a minimum. Unlike paddlewheels, the CS4500 is engineered to measure water speed below the turbulent boundary layer of the hull, resulting in accurate clean-water readings.

Tried and True Technology

The innovation doesn't stop here. Ultrasonic sensing is a proven technology that has been used on ships for nearly 20 years. Building on this technology, Airmar developed an advanced design which operates at a higher-frequency, enabling reliable operation in both salt and fresh water. The state-of-the-art processor in the CS4500 calculates speed every half second, so it can respond to rapid changes in vessel speed. This translates into the most reliable and accurate ultrasonic speed sensor on the market—at a very competitive price.



Bronze housing—CS4500



Sensing Technology

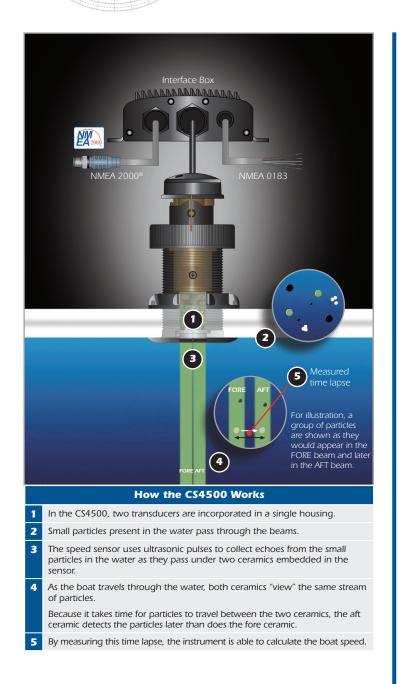
Ultrasonic Speed Sensor

Features

- Unparalleled accuracy as low as 0.1 knots (0.1 MPH)
- Designed for use with all types and sizes of sailboats and powerboats
- No moving parts
- Makes retrofitting a breeze—the retractable insert fits most Airmar 51 mm (2") housings
- Low-profile, plastic, or bronze housings available
- Built-in temperature sensor
- Optional Data Converter charges analog signal to NMEA 0183 data stream



Technical Information

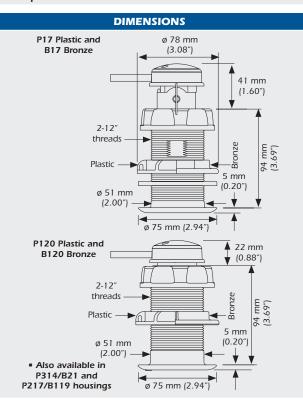


SPECIFICATIONS

Transmit Frequency: 4.5 MHz Pulse Repetition Frequency: 5.5 kHz Sampling Distance Below The Sensor: 77 mm to 127 mm (3" to 5")—outside the boundary layer Data Update Rate: 2 seconds Signal Output: Airmar paddlewheel format 5.6 Hz per knot -20,000 pulses per nautical mile Speed Range: 0.1 knot to 40 knots (0.1 MPH to 46 MPH) **Operating Temperature Range:** 0°C to 40°C (32°F to 104°F) Sensor Cable Type: Airmar C190 Sensor Cable Length: 10 m (33') standard Instrument Cable Length: 3 m (10') standard, up to 30 m (10') possible Supply Voltage: 10 VDC to 15 VDC Supply Current: 155 mA at 12 VDC Hole Diameter: 51 mm (2") Sensor Insert Material: Bronze Thru-Hull Housing Material: Plastic or bronze Blanking Plug: Yes

Weight:

—1.4 kg (3 lb)—Plastic —1.8 kg (4 lb)—Bronze CE Compliant: Yes







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