ÇŞ4500

Ultrasonic, Ultra-*accurate*.

High Precision, Low Maintenance!

Innovation at its finest! If you consistently demand the best, our CS4500 Ultrasonic Speed Sensor delivers. Ultra-accuracy is foremost! With no frictional moving parts, the ultrasonic sensor is capable of speed reading accuracy as low as 0.1 knots. 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, allowing the ultrasonic sensor to



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.



 Unparalleled accuracy as low as 0.1 knots

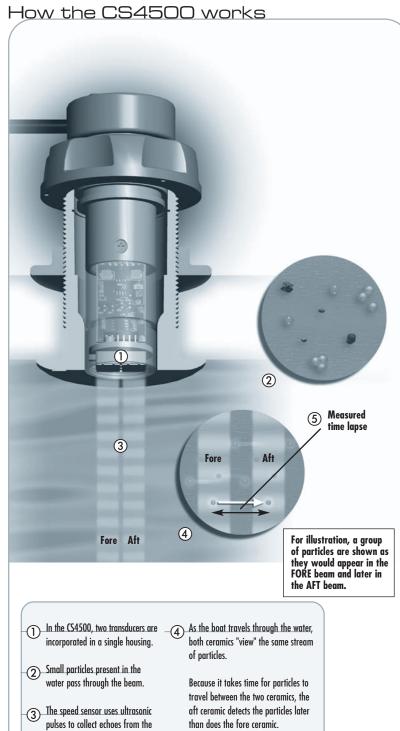
3

- No moving parts—no paddlewheel to foul and clean
- Makes retrofitting a breeze the retractable insert fits most Airmar 2" housings
- Built-in temperature sensor



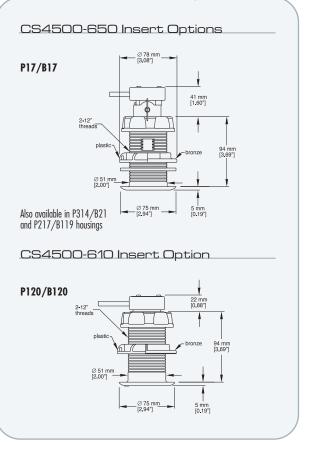


CS4500 Technical Information



5 By measuring this time lapse, the instrument is able to calculate the boat speed.

Available Housing Options



Speed measured	77 - 178 mm (3 - 5") below the hull
	(outside the boundary layer)
Frequency	4.5 MHz
Pulse repetition frequency	5.5kHz
Signal output	. Airmar paddlewheel format
Data update rate	2/sec.
Speed range	0.1 - 40 knots
CE compliant	yes
Supply voltage	10 - 15 VDC
Current	
Operating temperature range .	0° - 40° C (32° - 104° F)
Sensor insert material	Bronze
Thru-hull housing material	. Bronze or plastic
Sensor cable type	Airmar C190
Sensor cable length	10 meters standard
Instrument cable length	3 meters standard, up to 30 meters possible
Blanking plug	yes



small particles in the water as they

pass under two ceramics embedded

in the sensor.