

### The Smart Alternative!

Airmar's New ST800 and ST850 Smart™ Sensors feature embedded micro-electronics. Speed and temperature signals are processed inside the sensor and can be displayed on any radar, chart plotter, or device that accepts NMEA 2000® data.

### Minimize Your Drag

The ST850 is Airmar's standard, thru-hull, speed and temperature sensor. The plastic, bronze, and stainless steel outer housing options are available to meet all hull requirements. These low-profile housings are nearly flush and minimize drag with only 5 mm (3/16") extending outside the hull.

### Eliminate Turbulence

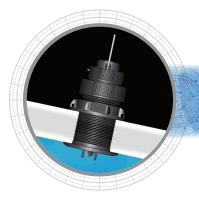
The plastic P217 and bronze B119 countersunk flush outer housings are easy-to-install. The plastic P314 and bronze B21 outer housing options have a traditional beveled-edge for flush mounting. Flush-mount housings eliminate turbulence for accurate readings at high-speeds. They are the optimal choice for installation in racing sailboats and high-speed powerboats.

## Thru-Hull Speed & Temperature Smart<sup>™</sup> Sensors

### **Features**

- Speed and temperature
- NMEA2000® or Analog output options
- Retractable plastic, bronze, or stainless steel housings with valve sleeve
- ST800—Retrofits into Airmar P120 and B120 housings
- ST850—Retrofits into Airmar P17 and B17 housings
- 6 m (20') NMEA 2000 cable, 9 m (30') Analog cable
- Devicenet connector or NMEA 2000 version
- Speed Range: 2 knots to 45 knots (2 MPH to 52 MPH)





# ST800, ST850

### **Technical Information**

### **SPECIFICATIONS**

Weight:

—0.7 kg (1.4 lb)—Plastic —1.3 kg (2.8 lb)—Bronze —1.6 kg (3.5 lb)—Stainless Steel

Speed Range: 2 knots to 45 knots (2 MPH to 52 MPH)

Acoustic Window: Urethane Hull Deadrise: Up to 22° Data Update Rate: 1 per second Pressure Rating: 3 m (10')

Pulse Rate: 17,000 p/nm\* (4.8 Hz per knot)—\*p/nm = pulses per nautical mile

**Supply Voltage:** 9 VDC to 16 VDC **Supply Current:** <200 mA

Standard Cable Length: 6 m (20') NMEA 2000 cable, 9 m (30') Analog

**Temperature Sensor Accuracy:** ±0.5°C (±1.8°F)

Temperature Sensor Range: -10°C to 40°C (14°F to 104°F) NMEA 2000® Load Equivalency Number (LEN): 2

**CE Regulation:** Complies to IERC60945

### **DATA OUTPUT PROTOCOL**

#### **Analog Paddlewheel Format**

OR

### NMEA 2000® Supported PGNs

**59392**..... ISO Acknowledgement **600928**..... ISO Address Claim

**126208**...... Acknowledge Group Function **126464**...... Transmit PGN List Group Function **126464**...... Received PGN List Group Function

126996...... Product Information

128259...... Speed (Speed Water Reference)

**128275**..... Distance Log

130310..... Environmental Parameters (Water Temperature) 130311..... Environmental Parameters (Water Temperature) 130312..... Environmental Parameters (Water Temperature)

