B122

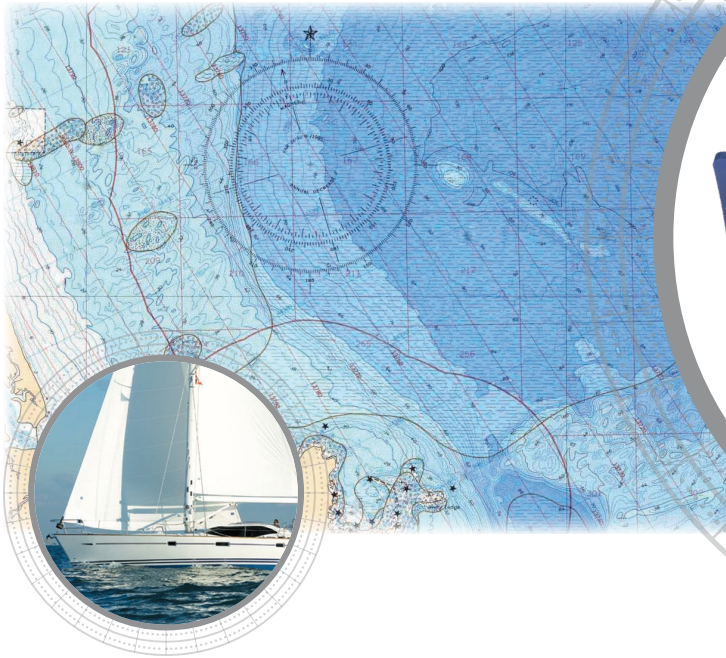## The Smart Alternative!

Airmar's B122 Smart™ Sensor features embedded micro-electronics. Depth and temperature signals are processed inside the sensor and can be displayed on any radar, chart plotter, or device that accepts NMEA 0183 or NMEA 2000® data. The 235 kHz frequency prevents mutual interference with other echosounders on the vessel.

Stronger Echo Returns

The B122 retractable, long-stem, bronze transducer is designed for use in thick hulled wooden boats or vessels with steep deadrise. The included high-performance fairing vertically orients the sound beam for stronger return echoes resulting in optimal sounder performance. The B122 can also be installed as a low-profile mount with an adaptor ring.

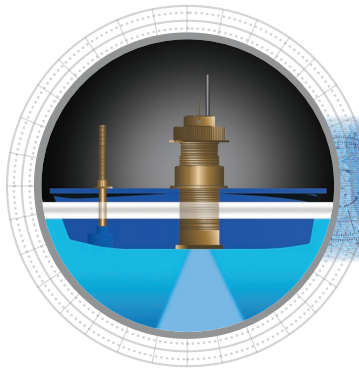## Thru-Hull Retractable, Long-Stem Smart™ Sensor

Features

- Long-stem, depth and temperature with a High-Performance Fairing

- Can install as a low-profile with adaptor ring

- 235 kHz frequency prevents mutual interference with other echosounders on the vessel

- For thick hulled or steep deadrise vessels

- Retractable, Bronze housing only

- Available in NMEA 0183 or NMEA 2000® versions

- 6 m (20') NMEA 2000 cable or 10 m (33') NMEA 0183 cable

AIRMAR®
TECHNOLOGY CORPORATION

Sensing Technology

www.airmar.com

B122

Technical Information

235 kHz Broadband

Number of Elements and Configuration	◯
Beamwidth (@-3 dB)	12°
RMS Power (W)	100 W

SPECIFICATIONS

Weight: 3.9 kg (8.7 lb)
Acoustic Window: Urethane
Hull Deadrise: Up to 28° with fairing
Hole Diameter: 51 mm (2")
Data Update Rate: 1 per second
Minimum Depth Range: 0.5 m (1.6')
Maximum Depth Range: Up to 180 m (590')—Broadband
Pressure Rating: 3 m (10')
Pulse Rate: 20,000 p/nm* (5.6 Hz per knot)—*p/nm = pulses per nautical mile
Supply Voltage: 9 VDC to 16 VDC
Supply Current: <200 mA
Standard Cable Length:
—10 m (33')—NMEA 0183 cable
—6 m (20')—NMEA 2000 cable
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): 4
CE Regulation: Complies to IERC60945

DATA OUTPUT PROTOCOL

NMEA 0183 Sentence Structure
$SDDBT, DDPT... Depth
$YXMTW............ Water Temperature

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
128267........ Water Depth (With Transducer Offset)
130310........ Environmental Parameters (Water Temperature)
130311........ Environmental Parameters (Water Temperature)
130312........ Environmental Parameters (Water Temperature)

DIMENSIONS

ø 80 mm (3.13")
165 mm (6.50")
5 mm (0.19")
ø 51 mm (2.0")
ø 59 mm (2.33")

75 mm (2.95")
343 mm (13.52")

121 mm (4.78")
2"-12 threads
170 mm (6.69")
76 mm (3.00")