DST800 Retractable TRIDUCER®

Fully-loaded is the only option.

Single Choice for Depth, Speed, and Temperature!
The DST800 is the market's first Retractable TRIDUCER® multisensor offering depth, speed, and temperature in a single, 51 mm (2") fitting. Only one hole through the hull simplifies the installation—an attractive feature for boat builders and boat owners alike.

Three-In-One
New, patented, speed-signal-processing enhancements provide excellent paddlewheel accuracy below 5 knots (6 MPH) and smooth linear output at all vessel speeds. The transducer's wide, fan-shaped, fore-aft beam is able to find bottom even when installed on steep deadrise hulls or heeling sailboats. And get true water-temperature readings with the DST800's reliable temperature sensor.

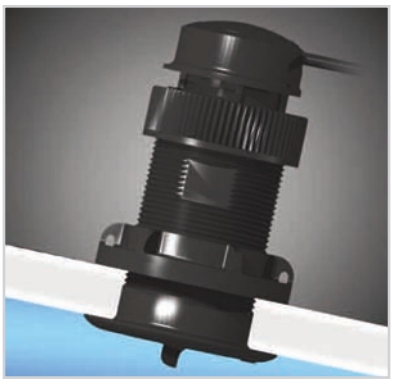
Diversified
This mulitsensor is designed to work with most electronics on the market today. It's available in analog and digital output configurations, including NMEA 0183, NMEA 2000®, and custom CAN protocols.

Valve Closes the Gap!
Airmar's new housing design incorporates the popular self-closing valve. When a transducer insert is removed, the valve minimizes water flow into the boat.

- **Recommended for planing hull powerboats and cruising sailboats**
- **Good sensitivity in a compact housing**
- **Fast-response temperature sensor provides ±0.2°C (±0.1°F) accuracy**
- **Available as a Smart™ Sensor at 235 kHz or an analog output sensor operating at either 200 kHz or 235 kHz**

Bronze

Stainless steel



AIRMAR® TECHNOLOGY CORPORATION

ISO 9001:2000

DST800
Technical Information

Specifications

Frequencies	Number of Elements and Configuration	Beam Width (@-3dB)
235 kHz-F	▭	10° x 44°

Weight
- Plastic . . . . . 0.9 kg (2.0 lb)
- Bronze . . . . . 1.6 kg (3.5 lb)
- Stainless Steel . . . . 1.9 kg (4.2 lb)

Hull Deadrise Angle . Up to 22°

Data Update Rate	1/second
Minimum Sounding Depth	0.5 m (1.6')
Maximum Sounding Depth @ 235 kHz	70 m (230')
Pressure Rating	3 m (10')
Pulse Rate	20,000 p/nm* (5.6 Hz/knot) *p/nm = pulses per nautical mile
CE Regulations	Complies to IERC945
Smart Sensor Supply Voltage @ 100% Sound Power Output	11.5 VDC to 25 VDC
Supply Current	40 mA
Standard Cable Length	6 m (19.5')—NMEA 2000/CAN 10 m (33')—NMEA 0183
NMEA 2000® Load Equivalency Number (LEN)	3

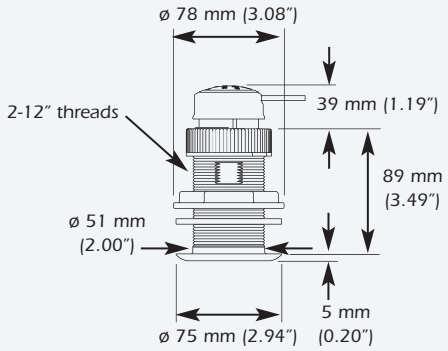
Data Output Protocol

NMEA 0183 Sentence Structure	
$SDDBT, DDPT	Depth
$VWVHW	Speed
$VWVLW	Distance
$YXMTW	Water Temperature
$YXXDR	Temp2

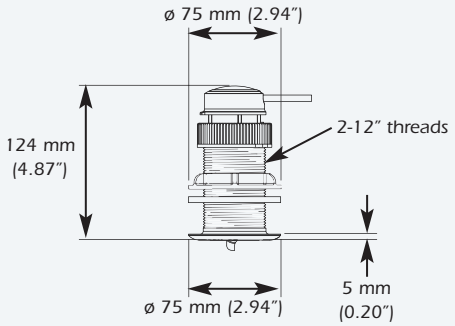
NMEA 2000® Supported PGNs			
128259	Speed (Speed Water Referenced)	600928	ISO Address Claim
128267	Water Depth (Water Depth, Transducer)	126208	Acknowledge Group Function
128275	Distance Log	126464	Transmit PGN List Group Function
130310	Environmental Parameters (Water Temperature)	126464	Received PGN List Group Function
59392	ISO Acknowledgment	126996	Product Information

Dimensions

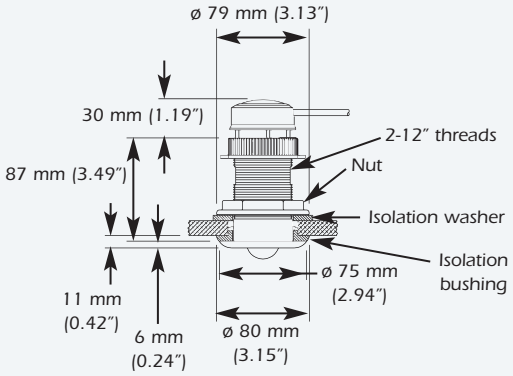
DST800 transducer
B17 Bronze



DST800 transducer
P617V Plastic



DST800 transducer
SS577 Stainless Steel



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