

# Retractable TRIDUCER® DST800



**Fully-loaded is  
the only option.**

## The Smart Choice For Depth, Speed & Temp!



The DST800 is the market's first Retractable TRIDUCER® multisensor offering depth, speed and temperature in a single, 2", thru-hull fitting. New, patented, speed-signal processing enhancements provide excellent paddlewheel accuracy below

5 knots and smooth linear output at all vessel speeds. The wide, fore-aft, fan-shaped beam is able to find bottom even when installed on steep deadrise hulls or on heeling sailboats.

## Three-In-One

Only one hole in the boat hull simplifies the installation—an attractive feature to both boat builders and boat owners alike. Simply diverse—this multisensor is designed to work with most electronics. Available in analog or digital output configurations including NMEA 0183, NMEA 2000® and custom CAN protocols.

## Retractablely Innovative!

The new housing design now incorporates our popular, self-closing valve assembly. When the transducer insert is removed, the valve minimizes water flow into the boat.



**AIRMAR®**  
TECHNOLOGY CORPORATION


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



# DST800

## Technical Information

### Specifications

Frequencies:	Number of Elements & Configuration	Beam Width: (@-3dB)
235kHz-F		10°x44°

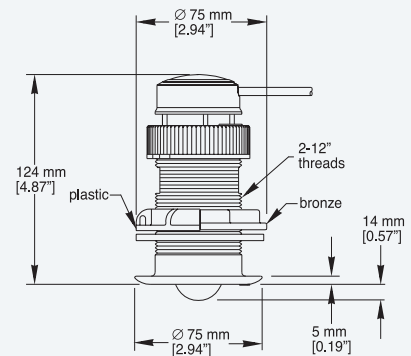
Weight: Plastic: ..... 0.9 kg (5.5 lb.)  
 Bronze: ..... 1.6 kg (3.5 lb.)  
 Stainless Steel: 1.9 kg (4.2 lb.)

Hull Deadrise Angle: ..... Up to 22°

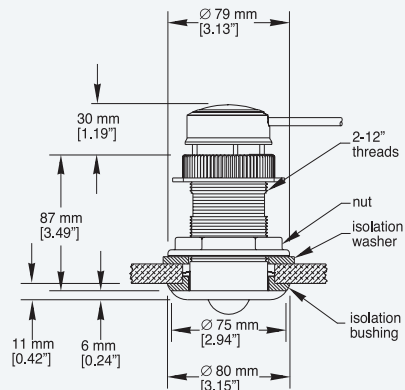
Data update rate	1/second
Minimum sounding depth	0.5 m (1.6')
Maximum sounding depth@ 235 kHz	70 m (230')
Pressure rating	3 m (10')
Pulse Rate	20,000 p/nm* (5.6 Hz/knot)
	* p/nm= pulses per nautical mile
CE Regulations	Complies to IERC945
Smart Sensor Supply Voltage	
@ 100% sound power output	11.5 VDC – 25 VDC
Supply current	40 mA

### Dimensions

DST800 transducer:  
P17 Plastic/ B17 Bronze



DST800 transducer:  
SS577 Stainless Steel



### Data Output Protocol

#### NMEA 0183 Sentence Structure

Depth.....DDBT, DDPT  
 Speed.....VWVHW  
 Distance.....VWVLW  
 Water Temp.....YXMTW  
 Temp2.....YXXDR

#### NMEA 2000 Supported PGN's

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