

# DST100 *Depth/Speed/ Temperature Transducer*

Maretron's DST100 Smart™ Retractable Depth/ Speed/Temperature Transducer, delivers precise digital depth, accurate speed and exact water temperature even at speeds above 40 knots — all with no programming or calibration necessary.

Its patented Smart™ Sensor technology, retractable and removable sensor, and NMEA 2000® network connectivity make the DST100 easy to interpret, easy to install and connect with other navigation equipment, and easy to maintain.

The DST100 measures precise water depth at 0.4m to 60m with a wide beam width and is tolerant to most deadrise angles. It reads water temperature from -10°C to +40°C at ±1.0°C accuracy, and accurate speed from 1 to 60 knots. At 235kHz it can be used with a fishfinder as an ideal navigation tool for sport or commercial fishing vessels—or with sailing vessels of all sizes.

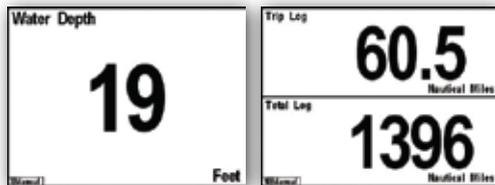
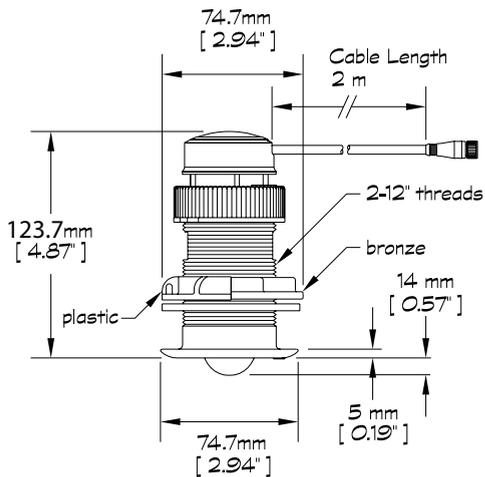
## Products

PART NUMBER	DESCRIPTION
DST100-01	Depth/Speed/Temperature Triducer®
M33-100	Bronze Housing Kit for DST100
33-495-01	Stainless Steel Housing Kit for DST100
33-398-04PW	Spare Paddle Wheel Kit



The DST100's plastic, bronze, or stainless steel housing choices are compatible with any hull material. It includes a blank plug to replace its sensor unit when the vessel will be docked for extended periods or trailered. This prevents damage to the sensor and reduces fouling growth.

Maretron's DST100 is CE compliant (IERC945) and is manufactured to the highest quality standards under ISO9K/2K procedures. Its compact, waterproof housing will provide years of reliable performance, making it the Smart™ choice in marine sensing.



DSM250/DSM200 Screen Shots

**NMEA 2000® Parameter Group Numbers (PGNs)**

Description	PGN#	PGN Name	Default Rate
Periodic Data PGNs	128267	Water Depth	1 Time/Second
	128259	Speed (Water Referenced)	1 Time/Second
	130310	Environmental Parameters (Water Temperature)	2 Times/Second
	128275	Distance Log	1 Time/Second
Response to Requested PGNs	126464	PGN List (Transmit and Receive)	N/A
	126996	Product Information	N/A
	126998	Configuration Information	N/A
Protocol PGNs	059392	ISO Acknowledge	N/A
	059904	ISO Request	N/A
	060928	ISO Address Claim	N/A
	065240	ISO Address Command	N/A
	126208	NMEA Request/Command/Acknowledge	N/A

**Electrical**

Parameter	Value	Comment
Operating Voltage	9 to 16 Volts	DC Voltage
Power Consumption	<50mA	Average Current Drain
Load Equivalence Number (LEN)	1	NMEA 2000® Spec. (1LEN = 50 mA)
Reverse Battery Protection	Yes	Indefinitely

**Mechanical**

Parameter	Value	Comment
Size	2.94" Dia. X 4.87" Tall (74.7mm Dia. X 123.7mm Tall)	Including Mounting Flanges
Weight	12 Oz. (340 g)	
Mounting	Lexan/Bronze/Stainless Steel	Bronze/Stainless Steel Optional
Hole Diameter for Mounting	2" (51 mm)	

**Environmental**

Parameter	Value
IEC 60945 Classification	Submerged
Degree of Protection	IP68
Operating Temperature	-10°C to 40°C
Storage Temperature	-40°C to 71°C

**Specifications**

Parameter	Value	Comment
Depth Operating Frequency	235 kHz	Wide Beam Angle
Beam Width	10° x 44°	
Minimum Depth	0.4 meters	Deadrise Angle Tolerant
Maximum Depth	60 meters	No Calibration Required
Depth Tracking Speeds	Up to 40 knots	High Speed Bottom Tracking Capability
Depth Update Rate	1 second	
Speed Sensor	Paddlewheel	No Calibration Required
Speed Range	1 – 52 knots	Microprocessor Signal Processing Accuracy
Speed Update Rate	1 second	
Water Temperature Range	-10°C to 40°C	Fast Response Time
Water Temperature Accuracy	±1.0°C	No Calibration Required
Water Temperature Resolution	0.01°C	
Deadrise Angle	≤22°	

**Certifications**

Standard	Comment
NMEA 2000® Standard	Level B+
Maritime Navigation and Radio Communication Equipment & Systems	IEC 61162-3
Maritime Navigation and Radio Communication Equipment & Systems	IEC 60945
FCC and CE mark	Electromagnetic Compatibility