DST110 Depth/Speed/ Temperature Triducer

Maretron's DST110 Smart[™] Retractable Depth/Speed/Temperature Transducer delivers precise digital depth, accurate speed and exact water temperature even at speeds above 40 knots.

Its patented Smart[™] Sensor technology, retractable and removable sensor, and NMEA 2000® network connectivity make the DST110 easy to interpret, easy to install and connect with other navigation equipment, and easy to maintain.

The DST110 measures precise water depth at 0.4m to 100m with a wide beam width and is tolerant to most deadrise angles. It reads water temperature from -10° C to $+40^{\circ}$ C at $\pm 1.0^{\circ}$ C accuracy and accurate speed from 1 to 50 knots. User customizable calibrations for speed and temperature allow you to adjust speed and temperature indications for your installation. At 235 kHz, it can be used with a fish finder as an ideal navigation tool for sport or commercial fishing vessels or with sailing vessels of all sizes.

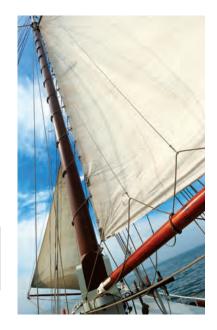
Products

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PART NUMBER	DESCRIPTION
DST110-01	Depth/Speed/Temperature Triducer® (100 Meter Depth)
M33-100	Bronze Housing Kit for DST100/DST110
33-398-04PW	Spare Paddle Wheel Kit



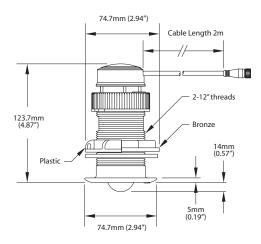


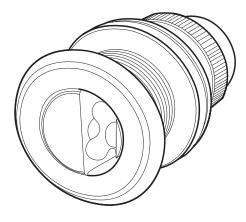


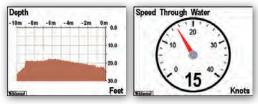
The DST110's plastic or bronze choices are compatible with any hull material. It includes a blank plug to replace its sensor unit when the vessel will be docked for extended periods or tailored. This prevents damage to the sensor and reduces fouling growth.

Maretron's DST110 is CE compliant (IEC 60945) 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.









DSM150 or DSM250 Screen Shots

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	100 meters	No Calibration Required
Darth Arriver	±20cm	0.6 – 7 meters
Depth Accuracy	±3%	7 – 100 meters
Depth Tracking Speeds	Up to 50 knots	High Speed Bottom Tracking Capability
Depth Update Rate	1 second	
Transmission Power	100 Watts	2% Duty Cycle
Speed Sensor	Paddlewheel	
Speed Range	1 – 50 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°	

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

	Description	PGN#	PGN Name	Default Rate
		128267	Water Depth	1 Time/Second
		128259	Speed (Water Referenced)	1 Time/Second
eter Ns)	Periodic Data PGNs	130310	Environmental Parameters (Water Temperature)	2 Times/Second
5 S	Periodic Data PGNs	130311	Environmental Parameters (Water Temperature)	2 Times/Second
rame (PGI		130312	Temperature	0.5 Times/Second
<u></u>		128275	Distance Log	1 Time/Second
- 2		126464	PGN List (Transmit and Receive)	N/A
[©] d	Response to Requested PGNs	126996	Product Information	N/A
2000 Numl	1 0113	126998	Configuration Information	N/A
N Z		059392	ISO Acknowledge	N/A
NMEA Group		059904	ISO Request	N/A
ΞS	Protocol PGNs	060928	ISO Address Claim	N/A
20		065240	ISO Address Command	N/A
		126208	NMEA Request/Command/Acknowledge	N/A

_	Parameter	Value	Comment
Cal	Operating Voltage	9 to 16 Volts	DC Voltage
Ë,	Power Consumption	<200mA	Average Current Drain
B	Load Equivalence Number (LEN)	4	NMEA 2000® Spec. (1LEN = 50 mA)
	Reverse Battery Protection	Yes	Indefinitely

Parameter	Value	Comment
Size	2.94" Dia. X 4.87" Tall (74.7 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)	
Parameter	Value	
IEC 60945 Classification	Submerge	d
Degree of Protection	IP 68	
Operating Temperature	-10°C to 40°C	
Storage Temperature	-30°C to 70°C	
Vibration	2 12 2Uz @ ±1mm 12 2 100Uz @	- / 2 150 000/5 0 -

Parameter	Value
IEC 60945 Classification	Submerged
Degree of Protection	IP 68
Operating Temperature	-10°C to 40°C
Storage Temperature	-30°C to 70°C
Vibration	2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s ² per IEC 60945-8.7
Water Immersion	per IEC 60945-8.9
Corrosion (Salt Mist)	4 times 7days @ 40°C, 95%RH after 2 hour Salt Spray Per IEC 60945-8.12
Electromagnetic Emission	Conducted and Radiated Emission per IEC 60945-9
Electromagnetic Immunity	Conducted, Radiated, Supply, and ESD per IEC 60945-10



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