

DX900+ MultiLog Sensor for Racing and Sailing

Industry's First Bluetooth®-Enabled, Multifunctional Sensor

Features

- Measures transverse and longitudinal speed which instantaneously calculates leeway angle and speed through water with no latency
- Outputs dual axis speed, depth & water temperature with no moving parts
- Offers a lightweight alternative to installing multiple sensors
- Retrofits to existing P617V AIRMAR housing
- Connects and shares data via AIRMAR's new CAST™ app (Bluetooth®-enabled)
- Outputs heel and trim*
- * available as option











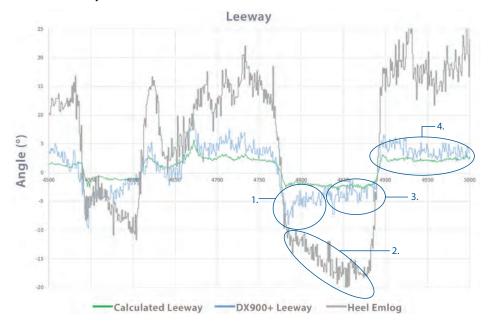
Truly Measuring Leeway Delive



ers Unsurpassed Performance

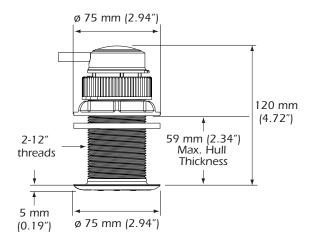
Measuring Leeway

No matter what type of racing you do, it's important to get every ounce of speed out of your boat. AIRMAR's new dual axis, electromagnetic multifunction sensor is exactly the advantage you need. The DX900+ measures transverse and longitudinal speed which instantaneously calculates leeway angle and speed through water with no latency.



- 1. Right after tack, the DX900+ leeway measurement is different than the calculated leeway. Seeing this difference gives a better true wind calculation during the tack—ultimately providing unsurpassed performance.
- 2. Boat speed increases after tack. Heel increases as speed increases.
- 3. Overtime, calculated leeway matches DX900+ leeway.
- 4. The DX900+ leeway and calculated leeway trend the same.

DIMENSIONS



P717V Housing*

*Low-profile, plastic or stainless steel housings available. Also retrofits to P617V housing.

DX900+ CONFIGURATIONS

NMEA2000® - Depth/Speed/Temperature



NMEA 0183 - Speed/Temperature



NMEA 0183 TRANSMITTED SENTENCES						
SENTENCE	DESCRIPTION	ON BY DEFAULT FOR EM LOG DST	ON BY DEFAULT FOR EM LOG ST	MAXIMUM LENGTH (CHARS)		
\$SD DBT	Depth Below Transducer	✓		40		
\$SD DPT	Depth	✓		35		
\$PAMTS, DEP	Depth		✓	34		
\$ D **	Depth			14		
\$YX MTW	Sea Water Temperature	✓	✓	20		
\$VM VBW	Dual Ground/Water Speed	✓	✓	35		
\$VW VHW *	Speed Thru Water	✓	✓	30		
\$VW VLW *	Distance Thru Water	✓	1	45		
\$YX XDR(T)	Transducer Measurements: Board Temp. and Voltage			43		
\$YX XDR(B)	Transducer Measurements: Vessel attitude	1	1	43		
\$VM NLA	Nautical Leeway Angle	✓	✓	19		

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 $[\]Box$ = supported but not enabled by default

^{(**)=} Proprietary sentence sent from Em Log DST Electronics Box to the Insert (on by default)

	SPECIFICATIONS		
_	Operating Frequency	360 kHz	
	Depth Range	60m	
1	Transverse Speed Range	± 6 knots	
1	Longitudinal Speed Range	± 60 knots	
	Accuracy of Transverse and Longitudinal Speed	+/- 0.1 knots for speed under 10 knots +/- 1% for speed above 10 knots	
	Display Resolution	0.01 knots	
	Outputs	NMEA 0183 (ST) or NMEA 2000® (DST)	
	Configurable data update rate	up to 10 Hz	
	Operating Temperature Range	-15°C to 55°C (5°F to 131°F)	
1134	Water Temperature Accuracy	+0.5°C (+1.0°F)	
	Supply Voltage	9 VDC to 16 VDC	
	Average Power Consumption	5.0W (DST) / 2.5W (ST)	
	Sensor Cable Length	3m (DST) / 6m (ST)	
	Blanking Plug	Yes	
A STATE	Weight (Sensor, box and cable)	2.25 lbs.	
NATURAL DESIGNATION OF THE PERSON OF THE PER	CE Compliant	Yes to IEC60945	

Note: The sensing pins in contact with the water are made from very high quality alloy, allowing
very stable measurements and high resistance to corrosion.

NMEA 2000® TRANSMITTED PGNS				
PGN	DESCRIPTION	DX900+		
59392	ISO Acknowledgment	1	•	
60928	ISO Address Claim	✓	1	
65285	Proprietary: Boot State Acknowledgment	✓		
65287	Proprietary: Access Level	✓		
65408	Proprietary: Depth Quality Factor	✓		
65409	Proprietary: Speed Pulse Count			
65410	Proprietary: Internal Device Temperature and Supply Voltage	✓		
126208	Acknowledge Group Function	✓		
126464	PGN List – Transmit and Received PGNs Group Function	✓		
126720	Proprietary: -33: Attitude Offsets -35: Simulate Mode	1		
	-40: Calibrate Depth -41: Calibrate Speed	✓	>	
	-42: Calibrate Temperature-43: Speed Filter	1	4	
	-44: Temperature Filter -62: Depth Filter	1		
	-65: Calibrate Speed Dual Axis	√	R	
	-66: Raw Orientation Data -67: Attitude Filter	✓ ✓		
126996	Product Information	✓	i	
126998	Configuration Information	✓		
127257	Attitude	✓		
128000	Nautical Leeway Angle	✓		
128259	Speed (water referenced)	✓		
128267	Water depth	✓	3	
128275	Distance log	✓	1	
130310	Environmental Parameters (water temp.)	✓		
130311	Environmental Parameters (water temp.)	✓	2	
130312	Temperature (water temp.)	✓	1	
130316	Temperature, Extended Range (water temp.)	✓	111/13	
130578	Vessel Speed Components	✓	1	
130944	Proprietary: POST	✓		

www.airmar.com

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^{(*) =} TalkerID is VM when these sentences are output by EM Log products.