



NMEA 0183



Update to XDR Sentence (Transducer Measurements)

Transducer	Type Field	Units Field	ID	Comments
Current	I	A = Amperes	NMEA Defined: "Battery#X" "Alternator#X" "Converter#X" "Inverter#X" "SolarCell#X" "WindGen#X"	
Displacement (Angular)	A	D = degrees P = percentage of full range	NMEA Defined: "EngineTilt#X" "Trim#X" "Trim" "Heel" "Rudder#X" "Rudder" "Leeway" "Yaw" "Pitch" "Roll"	"- " = anti-clockwise



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Transducer	Type Field	Units Field	ID	Comments
Displacement (Linear)	D	M = meters P = Percentage of full range	NMEA Defined "Door#X" "Window#X"	"-" = compression
Flow Rate	R	l = Liters/second	NMEA Defined: "Fuel#X" "FreshWater#X" "WasteWater#X" "LiveWater#X" "Oil#X" "BlackWater#X" "BrineWater#X"	
Fluid Level	E	P = Percentage of full range	NMEA Defined: "Fuel#X" "FreshWater#X" "WasteWater#X" "LiveWellWater#X" " "Oil#X" "BlackWater#X"	



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Force	N	N = Newton	NMEA Defined: "Press#X"	"-" = compression
Frequency	F	H = Hertz	NMEA Defined: "AC#X"	
Generic	G	none (null) User defined	User Defined	x.x = variable data
Humidity	H	P = Percent	NMEA Defined: "Air"	
Humidity (Absolute)	B	K= kg/m3	NMEA Defined: "Air"	kilograms per cubic meter
Pressure	P	B = Bars P = Pascal	NMEA Defined: "Engine#X" "EngineOil#X" "TransOil#X" "EngineCool#X" "EngineBoost#X" "TransOil#X" "Fuel#X" "Baro#X" "Baro"	"-" = vacuum
Salinity	L	S = Parts per Thousand	NMEA Defined: "Sea Water"	



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Transducer	Type Field	Units Field	ID	Comments
Switch / Valve	S	B = Binary P = percentage open of full range	NMEA Defined: "SwitchY#X" "Valve#X"	0 = Off / Open 1 = On / Closed Y = Switch Bank
Tachometer	T	R = RPM	NMEA Defined: "Engine#X"	
Temperature	C	C = Degrees Celsius K = degrees Kelvin	NMEA defined "Engine#X" "EngineOil#X" "TransOil#X" "Air"	
Voltage	U	V = Volts	NMEA Defined: "Battery#X" "Alternator#X" "Converter#X" "Inverter#X" "SolarCell#X" "WindGen#X"	
Volume	V	M = cubic meters P = Percentage of full range	"Fuel#X" "FreshWater#X" "WasteWater#X" "LiveWater#X" "Oil#X" "BlackWater#X"	