MERCE CON GALLONGO A AMERA 2000 GALLONGO A A J2K100 J1939 to NMEA 2000® Gateway

Maretron's J2K100 attaches directly into J1939 networks of compatible engines, transmissions, and gensets and converts the J1939 data to the new marine digital interface (NMEA 2000®). Critical engine, transmission, and genset data is then distributed throughout the vessel over a single cable where it can be monitored by any NMEA 2000® compatible display.

The J2K100 can also be used as part of a complete fuel computer. Simply connect the J2K100 together with Maretron universal displays (DSM250/N2KView®) and GPS antenna/receiver (GPS100) and you have a system capable of displaying gallons per hour and/or miles per gallon.



DESCRIPTION

J1939 to NMEA 2000® Gateway

J2K100 adapter Micro female to Deutsche 4 Pin 2 Meter Cordset

J2K100 adapter Micro female to Deutsche 12 Pin 2 Meter Cordset J2K100 adapter Micro female to Deutsche 12 Pin 2 T cable

The J2K100 converts the following information:

- AC Generator Current
- AC Generator Frequency
- AC Generator Voltage
- Tachometer
- Engine Hours
- Coolant Pressure
- Coolant Water Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- Boost Pressure
- Fuel Rate Monitoring
- Charging Voltage
- Percent Engine Load
- Percent Engine Torque
- Rated Engine Speed
- VIN
- Software ID
- Transmission Gear
- Transmission Oil Pressure
- Transmission Oil Temperature

any engine, transmission, or genset equipped with a J1939 interface, including products

- Kohler
- Perkins
- Volvo Penta

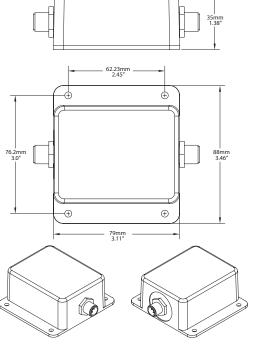
www.maretron.com 1-866-550-9100

Yanmar

The J2K100 is compatible with from the following manufacturers:



- Cummins
- Detroit Diesel
- John Deere
- Northern Lights
- Onan
- Steyr





N2KView Engine Screen



DSM250 Screen Shots

	J1939 SPN/PGN	Description	NMEA 2000® PGN
g 🗀	190 / 61444	Engine Speed	127488
<u> </u>	102 / 65270	Engine Turbocharger Boost Pressure	127488
š	100 / 65263	Engine Oil Pressure	127489
$\overline{}$	175 / 65262	Engine Oil Temperature 1	127489
2002	110 / 65262	Engine Coolant Temperature	127489
3 🗆	167 / 65271	Alternator Potential (Voltage)	127489
	183 / 65266	Engine Fuel Rate	127489
ו נ	247 / 65253	Engine Total Hours of Operation	127489
	109 / 65263	Engine Coolant Pressure	127489
	94 / 65263	Engine Fuel Delivery Pressure	127489
2	92 / 61443	Engine Percent Load at Current Speed	127489
	513 / 61444	Actual Engine – Percent Torque	127489
	189 / 65214	Engine Rated Speed	127498
	237 / 65260	Vehicle Identification Number	127498
2	234 / 65242	Software Identification	127498
	523 / 61445	Transmission Current Gear	127493
	127 / 65272	Transmission Oil Pressure	127493
	177 / 65272	Transmission Oil Temperature	127493

FCC and CE mark Electromagnetic Compatibility					
Description	PGN#	PGN Name	Default Rate		
	127488	Engine Parameters, Rapid Update	10 times/second		
	127489	Engine Parameters, Dynamic	1 time/second		
	127498	Engine Parameters, Static	N/A		
	127493	Transmission Parameters, Dynamic	10 times/second		
	65030	J1939 Generator Average Basic AC Quantitie	es 10 times/second		
	65226	J1939 Diagnostic Message #1	N/A		
	65227	J1939 Diagnostic Message #2	N/A		
Periodic Data PGNs	65228	J1939 Diagnostic Message #3	N/A		
	65229	J1939 Diagnostic Message #4	N/A		
	65230	J1939 Diagnostic Message #5	N/A		
	65231	J1939 Diagnostic Message #6	N/A		
	65232	J1939 Diagnostic Message #8	N/A		
	65234	J1939 Diagnostic Message #10	N/A		
	65235	J1939 Diagnostic Message #11	N/A		
	65236	J1939 Diagnostic Message #12	N/A		
	126464	PGN List (Transmit and Receive)	N/A		
Response to Request PGNs	126996	Product Information	N/A		
	126998	Configuration Information	N/A		
	059392	ISO Acknowledge	N/A		
	059904	ISO Request	N/A		
Protocol PGNs	060928	ISO Address Claim	N/A		
	065240	ISO Address Command	N/A		
	126208	NMEA Request/Command/Acknowledge	N/A		
Maretron Proprietary PGNs 126720		Configuration	N/A		

Level B+ IEC 61162-3

IEC 60945

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Parameter	Value	Comment
Operating Voltage	9 to 16 Volts	DC Voltage
Power Consumption	<150mA	Average Current Drain
Load Equivalence Number (LEN)	3	NMEA 2000® Spec. (1LEN = 50 mA)
Reverse Battery Protection	Yes	Indefinitely
Load Dump Protection	Yes	Energy Rated per SAE J1113

Size	3.11" x 3.	46" x 1.38" (79mm x 88mm x 35mm)	Including Flanges For Mounting	
Weight		8 oz. (227 g)		
Parameter		Value		
IEC 60945 Classification		Exposed		
Degree of Protection		IP67		
Operating Temperature		-25°C to 55°C		
Storage Temperature		-40°C to 70°C		
Relative Humidity		93%RH @40° per IEC60945-8.2		
Vibration		2-13.2Hz @ ±1mm, 13.2-100Hz @ 7m/s² per IEC 60945-8.7		
Rain and Spray		12.5mm Nozzle @ 100liters/min from 3m for 30min per IEC 60945-8.8		
Solar Radiation		Ultraviolet B, A, Visible, and Infrared per IEC 60945-8.10		
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		
Safety Precautions		Dangerous Voltage Electromagnetic Radio Frequency per IFC 60945-12		



Products PART NUMBER

MCF-2M-D1:

MCF-2M-D12CAT



NMEA 2000® Standard

Maritime Navigation and Radio Communication Equipment & Systems

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