

NMEA2000® 4-20MA PRESSURE ADAPTOR

FEATURES

- ◆ Convert 4 – 20mA pressure input to digital value with $\pm 2\%$ FSD accuracy
- ◆ User selectable pressure range
- ◆ User selectable pressure source
- ◆ User selectable damping
- ◆ Faulty sensor/connection detection (under or over current)
- ◆ No complicated menu setups required
- ◆ NMEA2000® micro C interface plug
- ◆ Designed to NMEA2000® network standard



The Oceanic Systems' NMEA2000® 4601 4 – 20mA Pressure Adaptor is designed to monitor any 4 – 20mA pressure source including atmospheric, water, steam, compressed air, hydraulic, oil & fuel on the NMEA2000® network.

This unit is designed to operate in a protected marine environment such as an engine room. It provides a standard NMEA2000® pressure PGN130314 over the network and is an important part of our complete monitoring and digital switching System designed to NMEA2000® standard.

It is fully waterproof to IP67 and ruggedly constructed for years of reliable and accurate service.

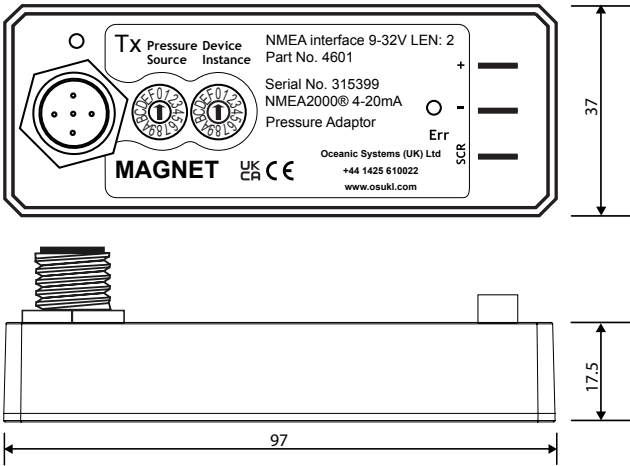
The unit comes with a detailed user manual and is engineered to the NMEA2000® network standard.

NMEA2000® 4-20MA PRESSURE ADAPTOR

Part Number: 4601



Dimensions



Pressure Sensors



Part Number	Product Description
4635	Pressure snubber for 1/4" G connection
4635	Pressure sensor 0-350bar (5000psi) 4-20mA 1/4" G connection
4635	Pressure sensor 0-200bar (3000psi) 4-20mA 1/4" G connection
4635	Pressure sensor 0-70bar (1000psi) 4-20mA 1/4" G connection
4633	Pressure sensor 0-35bar (500psi) 4-20mA 1/4" G connection
4632	Pressure sensor 0-7bar (100psi) 4-20mA 1/4" G connection
4631	Pressure sensor 0-3.5bar (50psi) 4-20mA 1/4" G connection
4625	Pressure sensor 0-1bar (15psi) 4-20mA 1/4" G connection
4625	Pressure snubber
4621	Pressure Sensor 0-1bar ABS, 4-20mA, 1/4" BSP
4620	Vacuum Sensor 0-1bar, 4-20mA, 1/8" NPT

Design Standard

NMEA2000	Level B
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NMEA2000 Parameter Group Numbers (PGNs)

Type	PGN No.	PGN Name
Monitor	PGN130314	Actual pressure
Protocol	PGN126464	Tx/Rx PGN List
	PGN126996	Product Information
	PGN059392	ISO Acknowledge
	PGN059904	ISO Request
	PGN060928	ISO Address Claim
	PGN126208	Command/Request Group

Electrical and Mechanical

Parameter	Value
Operating Voltage	12 to 24 VDC
Power Consumption	71.5mA (average Operating)
Load Equivalence Number	2
Reverse Battery Protection	Indefinitely
Load Dump Protection	Yes to SAE J1113
Size	97 x 37 x 17.5mm
Weight	135g

Environmental

Parameter	Value
IEC60954 Classification	Protected
Degree of Protection	IP67
Operating Temperature	-25°C to 50°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/s ² per IEC60945-8.7
Electromagnetic Emission	Conducted and Radiated Emission per IEC60945-9
Electromagnetic Immunity	Conducted/Radiated per IEC60945-10, 61000
Safety Precautions	Dangerous Voltage, Electromagnetic Radio Frequency per IEC60945-12

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Our policy is one of continuous product improvement, therefore product specifications are subject to change without notice. Oceanic Systems products are designed to be accurate and reliable. However, they should be used only as aids to vessel monitoring, and not as a replacement for traditional navigation and vessel monitoring techniques.

NMEA2000® is a registered trademark of the National Marine Electronics Association