

NMEA2000® 4-20mA TANK LEVEL ADAPTOR

FEATURES

- ◆ Convert 4 – 20mA sensor input to tank level
- ◆ Heartbeat blue LED confirming NMEA2000® transmission
- ◆ Faulty sensor/connection detection (under or over current)
- ◆ NMEA2000® micro C interface plug
- ◆ Robust ABS construction sealed to IP67
- ◆ Easy to install
- ◆ NMEA2000® certified



The Oceanic Systems NMEA2000® 4-20mA Tank Level Adaptor is designed to convert the output from a 4-20mA pressure sensor mounted in a tank to a standard NMEA2000® Tank Level PGN message.

It is switch settable for up to 12 different fuel, fresh water, grey water or black water tanks without requiring any additional setup from external displays.

The 4291 has 2 LED indicators. A blue LED, that flashes as each message is transmitted and a red LED, that indicates if the pressure sensor connection has a short or open circuit.

The unit is easy to calibrate to empty and full tanks simply by using the front panel switches.

It can also be factory or user calibrated to any tank shape or capacity with any Oceanic Systems display that is equipped to set up this data.

The 4291 has a standard Micro-C male plug for attaching to the NMEA2000® network and 6.35mm FASTON connectors..

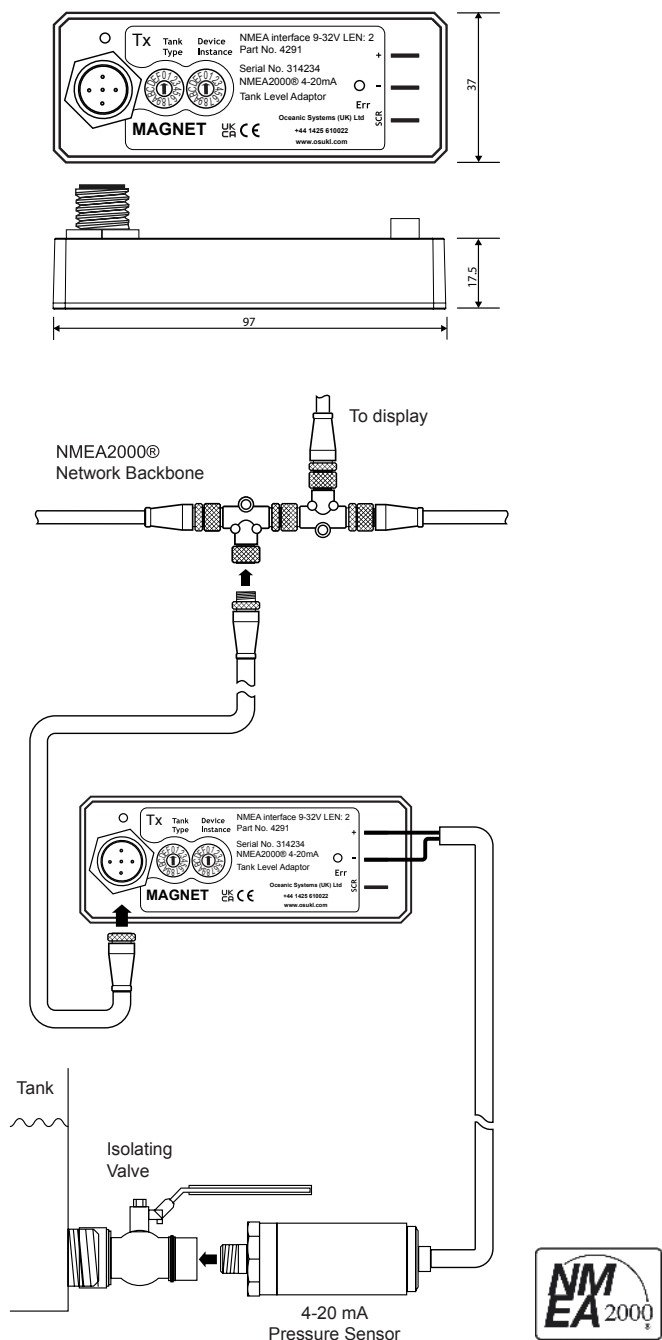
It is rated to IP67, and can be installed in any suitably protected environment within two metres of the 4-20mA Hydrostatic Pressure Sensor.

The unit is manufactured to EN60945 and certified for the NMEA2000® network.

NMEA2000® 4-20MA TANK LEVEL ADAPTOR

Part Number: 4291

Dimensions



Specification

Accuracy	±1% (Level Mode)
Number of Tanks	Up to 16 per tank type on single network

Design Standard

NMEA2000	Level B
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NMEA2000 Parameter Group Numbers (PGNs)

Type	PGN No.	PGN Name
Monitor	PGN127505	Fluid Level
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	140g

Environmental

Parameter	Value
IEC60954 Classification	Protected
Degree of Protection	IP67
Operating Temperature	-20°C to 50°C
Storage Temperature	-40°C to 70°C
Relative Humidity	93%RH @40° per IEC60945-8.2
Electromagnetic Immunity	Conducted/Radiated per IEC60945-10, 61000

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