



NMEA2000® Deck Filler Gauge

Part Numbers:-

3210-F Fuel Deck Filler Gauge

3210-W Fresh Water Deck Filler Gauge

Introduction

The 3210 Deck Filler Gauge is designed to display the fuel or water level in the tank being filled right at the point of filling.

It is available in two models:

The 3210-F Fuel Deck Filler Gauge displays the level of fuel in a single tank connected to a single deck filler. There can be up to 16 separate fuel tanks and fillers on a single vessel.

The 3210-W Fresh Water Deck Filler Gauge displays the level of freshwater in a single tank connected to a single deck filler. There can be up to 16 separate freshwater tanks and fillers on a single vessel.

Safety Instructions

This Deck Filler Gauge should only be installed by a person competent and experienced in working with fuel and water systems on board vessels.

All work involving fuel systems should be performed with extreme care due to the possibility of igniting fuel fumes.

Before beginning work the battery should be disconnected to avoid the risk of a short circuit, a fire or an explosion.

Before drilling any holes to mount the unit or run the cabling always make sure it is safe to do so.

Location and installation

The Deck Filler Gauge will be mounted either through the deck of the vessel or in a recess that is easily accessible for filling the tank. The white neoprene deck gasket supplied with the unit can be used to mark the cutout and mounting holes needed to mount the unit, Simply place the gasket in the desired location and mark the cutout and mounting holes with a pencil to show where to cut and drill. Take care to choose a location that is accessible below deck to allow the secure connection of the tank filling hose and the NMEA2000 cable.

Carefully cut around the mounting hole marked on the deck and drill the mounting screw holes. Then place the gasket on the deck and thread the NMEA2000 cable and

the Deck Filler body through the gasket and secure it to the deck using the mounting screw holes. The neoprene gasket should provide a watertight seal between the Deck Filler Gauge and the deck but if it is mounted in an exposed location use of an additional suitable deck sealant would be advised.

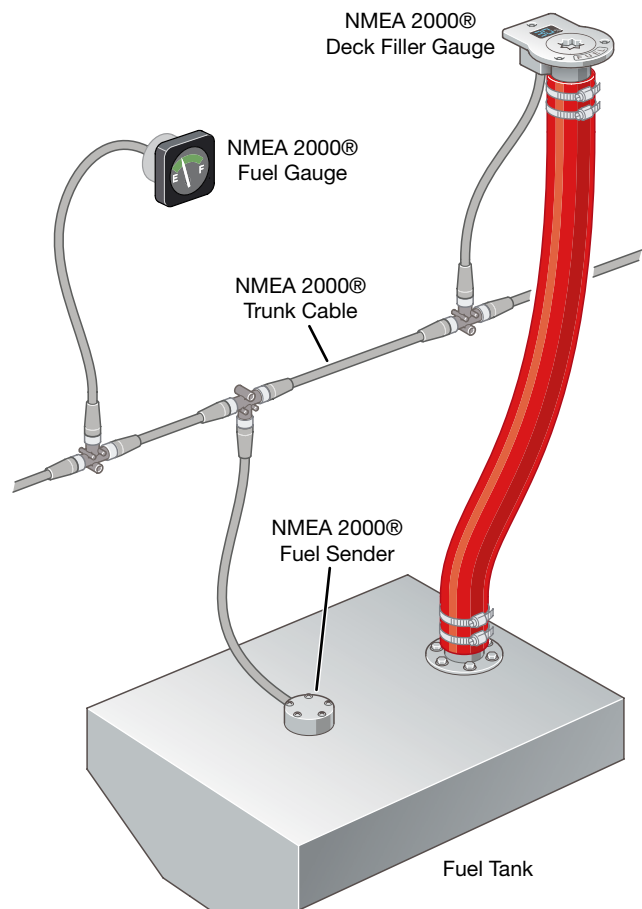
It is **very important** that the Fuel Deck Filler Gauge body should be **securely electrically bonded to the Tank** with a strong electrical bonding wire as recommended by the boat wiring regulations in your region. The NMEA2000 cable is NOT electrically connected to the Fuel Deck Filler body and cannot achieve this electrical bond.

Attach the filler pipe to the Deck Filler gauge securely. We recommend the use of two separate hose clips to ensure that this joint is secure.

Wiring

The NMEA2000 cable should be connected to a Tee adaptor on the NMEA2000 network. Ensure that it is mated securely and the retaining ring has been tightened correctly to ensure the junction is waterproof. Note that this cable length may be extended to a maximum of 6 metres by using micro drop cables.

No further cables are required because the NMEA2000® network includes both power and data in the same cable.



Configuration

The small switch on the underside of the Fuel Deck Filler Gauge or the Fresh Water Deck Filler Gauge should be set to match the tank number switch on the Fuel or Water Level Sender in the tank that the filler tube is connected to.

Tank Number	Switch Position
1	0
2	1
3	2
4	3
5	4
6	5
7	6
8	7
9	8
10	9
11	A
12	B
13	C
14	D
15	E
16	F

Operation

Once the module has been installed there is no normal operator intervention required. The unit should be washed occasionally to remove any salt buildup. The use of a pressure washer is not recommended.

Display

The LED display will show tank levels from 0% to 99% as the numbers 0 to 99. When the tank is at 100% the display will show "FF". When the unit is first powered on or when it is not receiving a data signal it will display "--"

The LED display will vary in brightness according to the ambient light level. When it is dark the display is dimmed rising to full brightness in direct sun.

Calibration

The unit comes calibrated. No further calibration is required.

Warranty

Offshore Systems (UK) Ltd. warrants its products to be free from defects in materials and workmanship for twelve months from the date of original purchase. If within this period any such products shall be proved to Offshore Systems (UK) Ltd's satisfaction to fail to meet the above limited warranty, such products shall be repaired or replaced at Offshore Systems (UK) Ltd's option. Purchaser's exclusive remedy and Offshore Systems (UK) Ltd's sole obligation hereunder, shall be limited to the repair or replacement, at Offshore Systems (UK) Ltd's option, of any product not meeting the above limited warranty and which is returned to Offshore Systems (UK) Ltd.; or if Offshore Systems (UK)

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