# TANK LEVEL PANEL GAUGE
## INSTALLATION AND OPERATING INSTRUCTIONS

Part Numbers:
3350-F Fuel Level Panel Gauge
3350-W Fresh Water Level Panel Gauge
3350-B Black Water Level Panel Gauge

### INTRODUCTION

The 3350 Tank Level Panel Gauge is designed to display the contents of the Tank and to control any auxiliary pump or equipment etc. connected to that tank.

The 3350 is housed in a standard 2" / 52mm diameter panel gauge instrument that contains a blue LED digital display, front panel "MUTE" and "SET" buttons and a 10 Amp changeover relay to control the auxiliary device.

It has a standard NMEA2000® micro sized male plug to link to the NMEA2000® network and 3 x ¼" male spade terminals to link to any auxiliary device.

THIS INSTRUMENT SHOULD ONLY BE INSTALLED BY A PERSON COMPETENT AND EXPERIENCED IN WORKING ON ELECTRICAL SYSTEMS ON BOATS. 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 TO RUN THE CABLING ALWAYS MAKE SURE IT IS SAFE TO DO SO.

### SAFETY INSTRUCTIONS

This instrument should only be installed by a person competent and experienced in working on electrical systems on boats. 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 to run the cabling always make sure it is safe to do so.

### MOUNTING OPTIONS

The instrument is designed to be panel mounted in a 2" or 52mm clearance hole and requires clearance of at least 100mm behind the hole to allow for cable connections to be run without undue stress.
It is fixed to the panel by using a reversible rear mounting ring nut which can accommodate panels of up to 25mm thick. The front of the instrument is sealed to IP67 and when correctly mounted in a panel using the supplied gasket will provide an IP67 seal to the panel.

### LOCATION AND INSTALLATION

The 3350 Tank Level Panel Gauge displays the tank level as a % of full. If this information is required in multiple positions then multiple instruments can be installed. A mounting hole providing clearance for a 2" / 52mm diameter should be cut at the desired location. The instrument should be inserted from the front with its gasket. The mounting ring nut is attached at the rear and tightened sufficiently to hold the instrument securely. The male NMEA2000® micro plug should be attached to a Tee connector on the NMEA2000® network 'Trunk Line' either directly or by using a NMEA2000® micro drop cable.

THE UNIT ADDRESS SWITCH ON THE BACK OF THE INSTRUMENT MUST BE SET TO EXACTLY MATCH THE UNIT ADDRESS SWITCH ON THE TANK LEVEL SENDER THE UNIT IS TO DISPLAY.

The Tank Level Panel Gauge includes a 10A changeover relay that is activated if the tank level alarm is triggered. This can be wired to control other equipment or an external alarm circuit. The relay contacts are ¼" spade connections on the back of the gauge and are marked as the Common, Normally Open and Normally Closed.

### DISPLAY

When power is applied to the NMEA2000® network this unit will display the tank level in the tank that has it's unit address switch exactly matching the unit address switch on the back of this unit.

This display is on a three character blue LED display that shows the level as a percentage from 0% being empty to 100% being full. This LED varies it's brightness to match the ambient light level.

### SETTING THE ALARM TRIGGER LEVEL

The Alarm Trigger Level can be set by pressing and holding the 'MUTE' button and pressing the 'SET' button until the display shows the required alarm level.

On the Fuel and Fresh Water Gauge the low alarm level can be selected to be 0% ( = Alarm OFF), 5%, 10%, 15%, 20%, 25%, 30%, 35%, 40%, 45%, 50%, 55%, 60%, 65% or 70%".

When the unit sees an alarm condition the sounder will bleep and the red alarm LED will flash. Pressing the mute button will silence the sounder. The alarm will automatically reset when the tank level has been changed so that it is outside the chosen alarm level.

### CALIBRATION

No calibration of this instrument is required.

### CLEANING

The 3350-x instrument can be cleaned with mild soap and water. Do NOT use solvents or abrasive or pressure washers as these could damage the front of the instrument.

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