

Overview

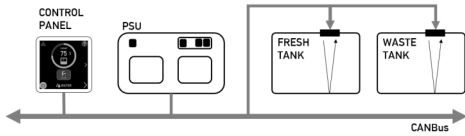
The Sargent ultrasonic water sensor allows accurate monitoring of the water level in leisure vehicle fresh and waste water tanks. The unit can be calibrated to suit different depths of tank.

Note:- This sensor can only be used with a compatible Sargent PSU and Control Panels via the CANBus interface

Key Features

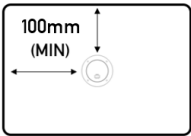
- Uses sonar sensor technology
- Contactless measurement reduces need for sensor cleaning
- Accurate measurement in steps of 1%
- Automatic calibration for tanks up to 1 metre deep

Installation



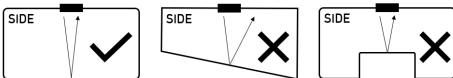
The sensor should be installed in the top of the tank, as near the centre as possible and at least 100mm from the edge to ensure accurate readings.

Top View



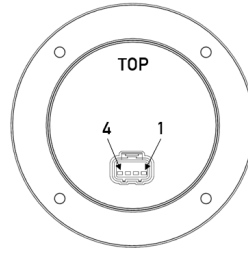
Drill a 57mm hole then fix the sensor in position with 4 x stainless steel self tapping screws. Use the sealing gasket provided to ensure a water tight seal.

Note:- This sensor is not suitable for tanks with a sloped or irregular shaped base, as this will cause incorrect readings



Connect the CANBus wiring harness to each sensor, ensuring the 4-way waterproof connector is fully

locked into place.



Pin	Function
1	CAN L
2	CAN H
3	GND
4	+12V

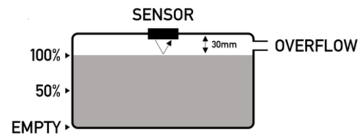
Operation

Calibration

When 12 volt power is applied to the sensor for the first time, it will automatically calculate the depth of the tank to which it has been fitted. To enable this to happen correctly, ensure there is no water in the tank for the initial calibration or incorrect readings will result.

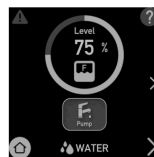
If a sensor needs to be re-calibrated for any reason, this can be done manually from the Advanced settings menu of the control panel.

Note:- After calibration the 100% full level will be set at 30mm below the calibrated tank depth, as the sensor cannot measure fluid levels closer than 30mm to the sensor face.

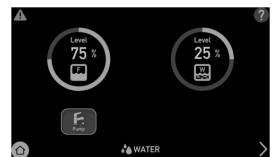


Display

After initial calibration the sensor will start to send out regular readings of the remaining water in the tank(s), for display on a compatible Control Panel such as the EC940 and EC970 shown below.



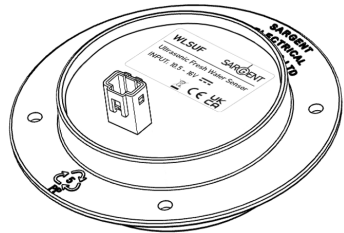
EC940



EC970

Specification

Model	WLSUF / WLSUW
Input Voltage	10.5 - 16.0V
Tank Depth Range	100mm to 1000mm
Resolution	1mm / 1%
Dimensions	80mm(diam) x 22mm
Weight	67g



Ultrasonic Water Sensor Installation & User Instructions WLSU Series



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