

Hello.

Here is a quick guide to getting your sensor up and running.

The Gill 7014 Liquid Level Sensor is a sealed unit and any damage to the black sleeving on the probe will result in failure of the sensor.

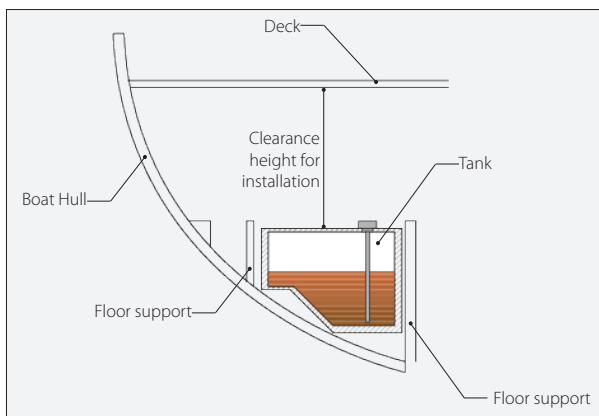
Do not attempt to cut the sensor to length or bend the sensor probe. Both actions will result in sensor failure and invalidate the warranty.

If the sensor has been used in Blackwater or any other materials, special procedures must be followed. You **must** contact Gill Sensors & Controls for instructions.

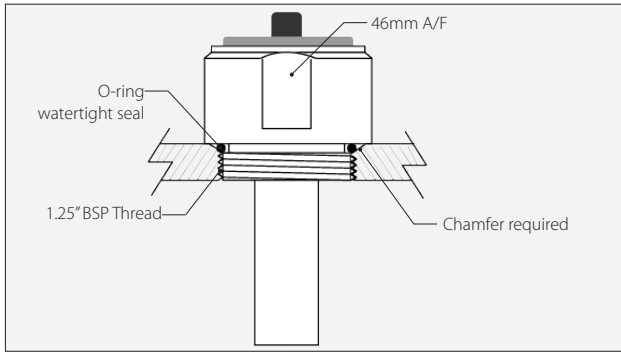
Contact details can be found on our website at gillsc.com

The sensor **must not** be returned by post or parcel courier until you have contacted Gill Sensors & Controls.

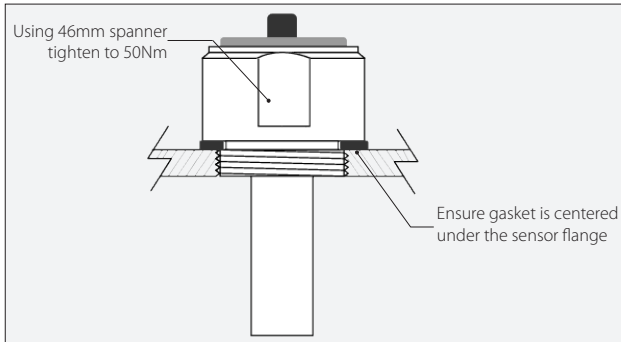
1. Ensure you have sufficient clearance to get the sensor into the tank without bending the probe or scraping the black sleeve on sharp edges.



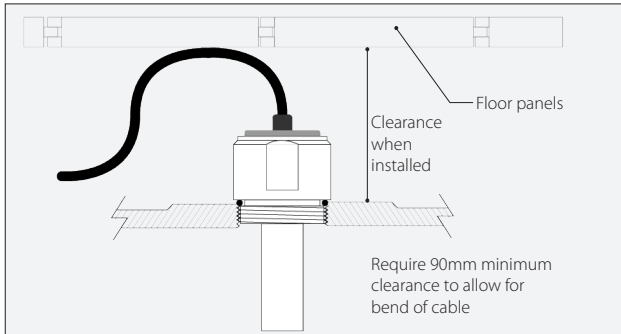
2. Fit the sensor into a 1.25" BSP threaded hole using a 46mm A/F spanner. To use the O-ring seal the mounting hole requires a 3mm chamfer around the upper edge of the hole. Tighten until the sensor 'bottoms out'.



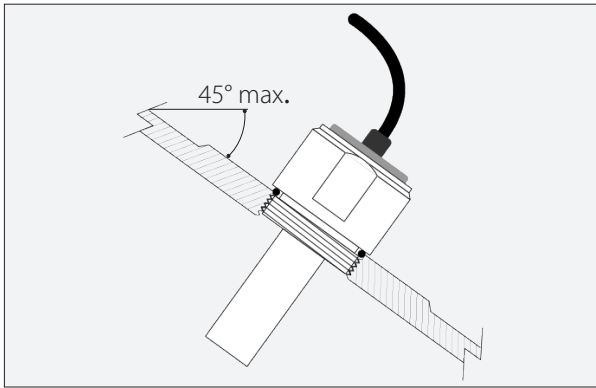
3. If it is not possible to create a chamfer, then the gasket should be used. Remove the O-ring and fit the gasket over the thread mount, black face up. Ensure the gasket is centered under the sensor and tighten to a torque of 50Nm, approximately 4.5 turns.



4. Once installed the sensor requires a minimum of 90mm from the top of the tank to the underside of the housing to allow for cable bend.



5. The sensor can be installed at any angle from vertical to a maximum recommended angle of 45°. Even at its maximum supplied length of 2 metres the sensor does not require any supports inside the tank.

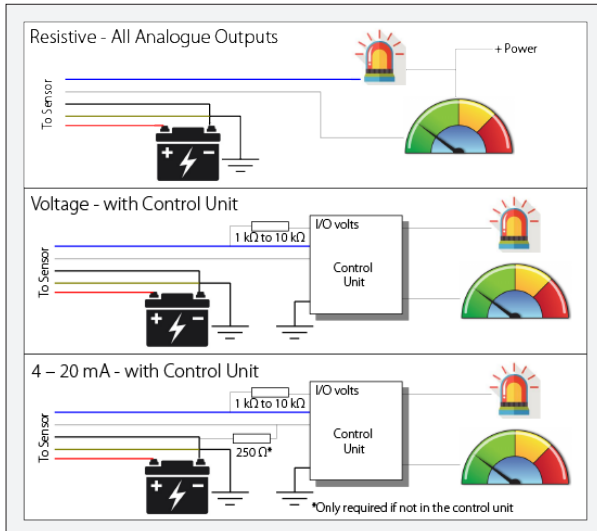


6. The sensor requires a DC power supply between 6V and 32V. It has reverse polarity protection to -32V and over voltage protection to +/- 50V (5 minutes).

Analogue Output options are as follows;

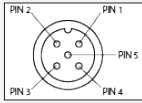
- RED** = Power
- BLACK** = Ground
- WHITE** = Measurement
- BLUE** = Switch
- BARE** = Shield

- Indicator =
- Gauge =



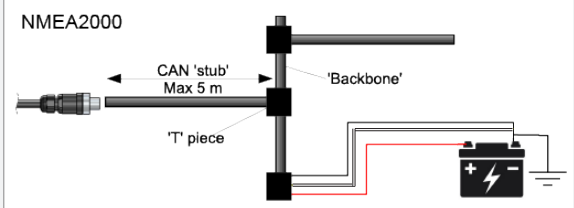
Electrical connections for the NMEA2000 option are as follows;

- RED** = Power
- BLACK** = Ground
- WHITE** = CAN-H
- BLUE** = CAN-L
- BARE** = Shield



Supplied with M12, 5-way Micro NMEA2000 'male' connector

NMEA 2000 CONNECTIONS	
PIN NO.	DESIGNATION
1	Shield
2	NET-S (V+)
3	NET-C (V-)
4	NET-H (CAN-H)
5	NET-L (CAN-L)



NMEA2000

CAN 'stub' Max 5 m

'Backbone'

'T' piece

7. To setup and commission the sensor you will require a standard USB lead - Type A to Mini B.



On the top of the sensor flange, remove the retaining screw and cover to access the USB connection. There is an 'O' ring seal around the cover which makes it resistive to removal. When replacing the cover please ensure that a good seal is re-established.

Go to the Gill website gillsc.com/blackwater to download the configuration software. The Users Manual supplied with the sensor has the details on configuration set-up.