

## Marine Liquid Level Sensor

## Key Features

- Suitable for use with water, saline, fuels and oils
- Marine grade Stainless Steel construction
- Compliant with the NMEA2000 marine network standard
- SAE 5-Bolt & 1.25" BSP thread mount housing
- High Accuracy  $\pm 2\%$
- $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  operating temperature range
- Factory Calibrated
- No moving parts for high reliability

The GSlevel M marine specification Liquid Level Sensor is available up to 2m long and is designed specifically for marine applications where monitoring of fuels or water is required. The sensor uses solid state capacitive technology to sense the level of the liquid, with no moving parts, floats or other mechanical linkages to provide excellent long term reliability. Designed to operate at extreme operating temperatures, the GSlevel M ensures high reliability in harsh marine environments from  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .

Built from marine grade 316 stainless steel, the GSlevel M liquid level sensor will provide corrosion resistance in harsh marine environments.

The sensor features both SAE 5-Bolt and 1.25" BSP thread mounting options. A flange gasket and O-ring seal are supplied with each unit.

Gill Sensors quality control ensures that every GSlevel M sensor is factory calibrated with temperature compensation to provide market leading accuracy of liquid level measurement.



View from underside

**RoHS**   
Compliant

## ELECTRICAL

Supply Voltage	5 to 32V
Supply Current	<40mA @ 12VDC
Reverse polarity	Indefinitely

## CONNECTION

Connector	5 pin NMEA2000 compatible 'Micro' plug
Cable tail length	500mm

## DIGITAL OUTPUT

Range	0 to 100%
Resolution	10 bit (0.1%)
Range Accuracy	+/- 2% Full Scale Deflection
Communication interface	NMEA2000 compliant marine network standard

## MECHANICAL

Construction Materials	Stainless Steel 316, FEP, PEI
Probe Length (Dim X)	100mm to 2000mm (in standard increments)
Mounting	SAE 5-bolt pattern & 1.25" threaded
Weight	From 300g (dependant on length)

## ENVIRONMENTAL

Ingress Protection	IP66, IP68
Thermal Shock	EN60945
Operating temperature	$-40^{\circ}\text{C}$ to $+125^{\circ}\text{C}$ (NMEA cable rated to $+75^{\circ}\text{C}$ )
Humidity	93% RH at $40^{\circ}\text{C}$ EN60945
Corrosion resistance	Stainless steel 316 construction
Vibration	EN60945
Pressure	10 Bar (differential & absolute)
Seal Material	Nitrile (O-ring & Gasket)
EMC	EN60945

## COMPATIBLE MEDIUM

Fuel	Gasoline, Unleaded, LRP, Diesel
Water	Fresh water, Saltwater, Ethylene Glycol, Please consult Gill for other liquid compatibilities.

Sensor requires probe support for lengths beyond 650mm.  
Specifications subject to change without notice.

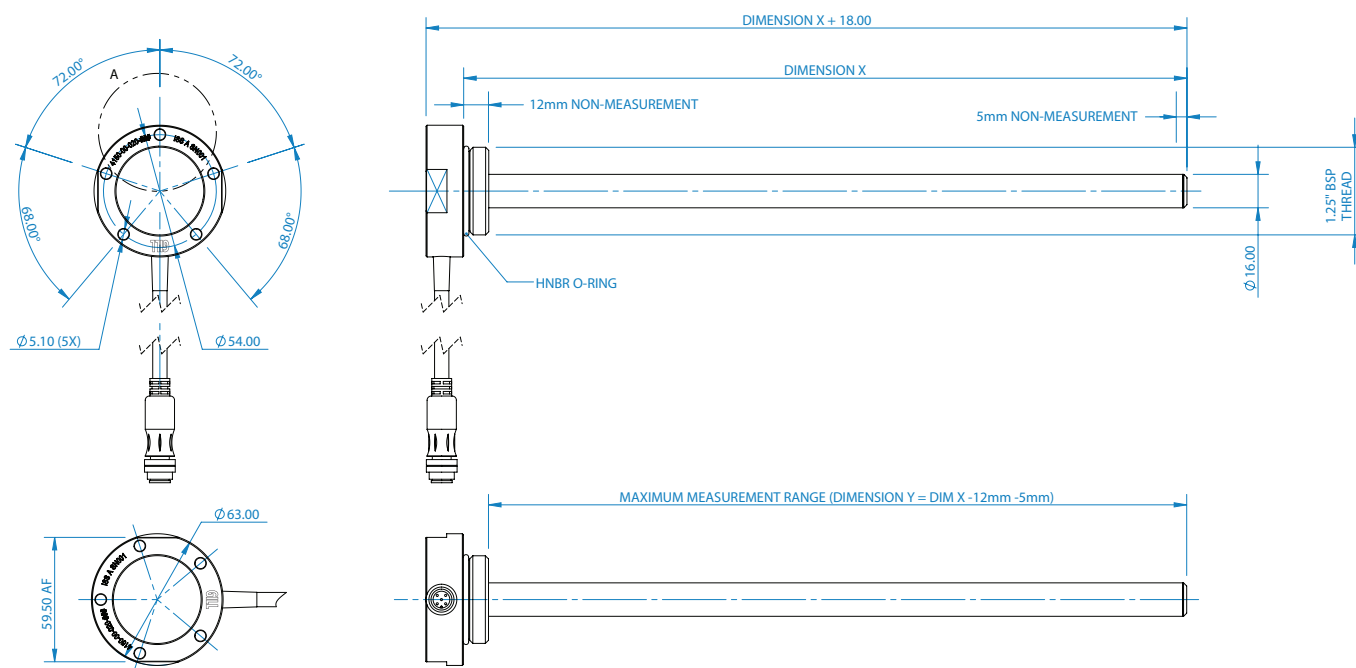
### WIRING

Colour	Pin No.	Description
Red	Pin 2	NET-S V+ (Power)
Black	Pin 3	NET-C V- (GND)
Blue	Pin 5	NET-L (CAN Data Low)
White	Pin 4	NET-H (CAN Data High)
Drain	Pin 1	(Shield)

### PART NUMBERS

4150-00-020-X	
Length X (mm)	Standard increments
100 - 300	25mm
350 - 1000	50mm
1100 - 2000	100mm
4150-00-040	
USB-CAN configuration kit	

Dimension X is customer specified in standard lengths as above



Sensor supplied with O-ring & gasket

Specifications subject to change without notice.

# GILL

### Gill Sensors

Saltmarsh Park, 67 Gosport Street  
Lymington, Hampshire, UK  
SO41 9EG

Tel: +44 (0) 1590 613 400  
Fax: +44 (0) 1590 613 401  
info@gillsensors.com



[www.gillsensors.com](http://www.gillsensors.com)

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