

### Key Features

- Suitable for Use with Fuels, Oils or Bio-Fuels
- Solid-State Capacitive Technology
- Lightweight Aluminium Construction
- SAE 5-Bolt Flange Mount
- 0-5V Analogue Output
- -40°C to +125°C Operating Temperature
- Factory Calibrated
- Available up to 450mm Long

The GSlevel-R liquid level sensor features an SAE 5-bolt flange mount with fully-integrated electronics. The sensor is manufactured to your custom length requirement and offers a fully configurable 0-5V analogue output (typically calibrated 0.25V empty, 4.75V full).

Manufactured from Aluminium, the sensor utilises capacitive technology with no moving parts to accurately detect levels of fuel, oil, bio-fuels and other liquids. Each sensor is factory calibrated in your liquid type (or equivalent).



### ELECTRICAL

Supply Voltage	+6VDC to +24VDC
Supply Current	<10mA @12V
Serial Interface	RS232 (+5V)
Resolution	10 bit
Sample Rate	80Hz

### ANALOGUE OUTPUT

Voltage Output Range	0.25V - 4.75V over dimension 'Y'
Range Accuracy	±1% @ 50% full scale deflection (20°C)

### WIRING

Wire	500mm flying lead
Wiring Gauge	26 AWG PTFE insulator
Cable Material Compatibility	Viton outer jacket

### MECHANICAL

Probe Length (Dim X)	80 - 450mm (customer to specify)
Mounting	SAE 5-bolt pattern
Weight	From 180g (dependant on length)






### ENVIRONMENTAL

Protection Class	IP67
Operational Temperature	-40°C to +125°C
EMC Immunity Level	SAE J1113/2 1996
Construction	Aluminium
Finish	Anodised to DEF STAN 025

### COMPATIBLE MEDIUM

Fuel	Gasoline, Unleaded, LRP, Jet Fuel, Avgas
Oil	Engine oils, transmission oils, steering & hydraulic fluids, Diesel, Heavy Oil
BioFuel	Ethanol E100, E85, E50, E20, E10 Methanol
Other	Please consult Gill for other liquid compatibilities

## WIRING

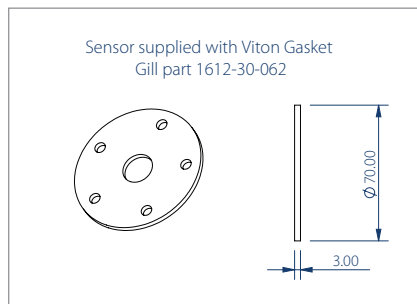
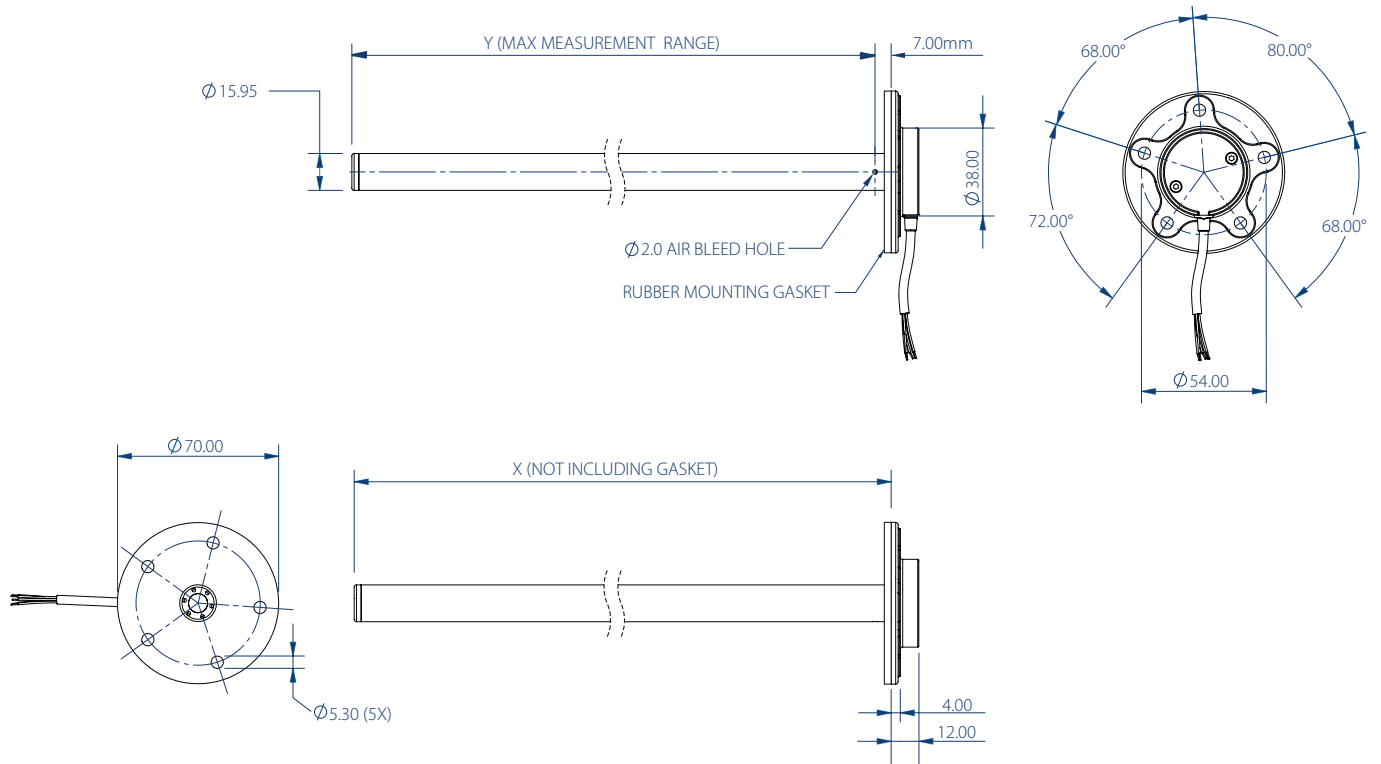
	Red	V+ (Power)
	Black	V- (GND)
	Orange	Analogue signal 0.25V to 4.75V
	Green	Serial Rx
	White	Serial Tx

## PART NUMBERS

Fuel	1612-00-015-X
Oil/Diesel	1612-00-016-X
Bio-Fuel	1612-00-017-X

X= Customer specified length in mm (see drawing below)

Dimension X is customer specified



All dimensions in mm.

Drawing representative of Fuel Sensor 1612-00-015-X.

Dimension Y is customer configurable over max measurement range on request.

Due to ongoing product development specifications are subject to change.

# GILL

## Gill Sensors & Controls Limited

Unit 600 Ampress Park  
Lymington, Hampshire  
SO41 8LW

Tel: +44 (0) 1590 613 900  
Fax: +44 (0) 1590 613 901  
info@gillsc.com



**gillsc.com**

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