LevelLite

Lightweight Liquid Level Sensor

Quickstart Guide

gillsc.com

4223-30-070 Iss.3

Thanks

Thank you for purchasing this sensor. The LevelLite sensor is a high precision device designed to give accurate results and long service straight from the box. To further optimise the sensor to your requirements please visit www.gillsc.com/support and download the GSlevel software.*

This guide covers all models in the range.

Note; Safety Warning, This equipment is not ATEX certified and has not been designed for use in areas which fall within the scope of the ATEX directive. If an area of intended usage is within the scope of the ATEX directive, then contact Gill Sensors & Controls Ltd for further information.

What's in the box

- 1 x Liquid Level Sensor
- 1 x Fitting Kit
  - 1 x O-Ring 13 x 1.5,
  - 1 x O-Ring 19 x 1.5
  - 1 x Panel Gasket
  - 3 x Screw M3 x 6

What's required (All Models)

An adaptor is required for all installations. Either a customer supplied adaptor or one of the following:

- 1 hole (Gill Part 4223-10-A)
- 2 hole (Gill Part 4223-10-B)
- 3 hole (Gill Part 4223-10-C)
- 5 hole (Gill Part 4223-10-D)
- Threaded fitting adaptor (Gill Part 4223-10-E)

Note:

*Please note, further optimisation of the sensor to your requirements is available through the Gill GSlevel software that is free to download. You will need the following connection cable as follows;**

- *RS232 - USB Converter*
  - *Gill recommend FTDI part# USB-RS232-WE-1800-BT 5.0*
  - *Gill part# 1484-00-086, RS Components part# 687-7821*

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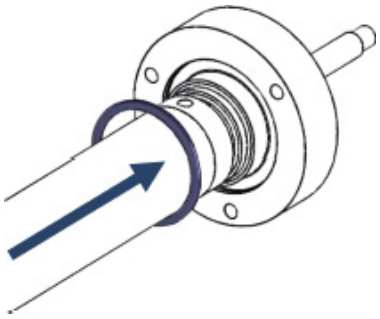
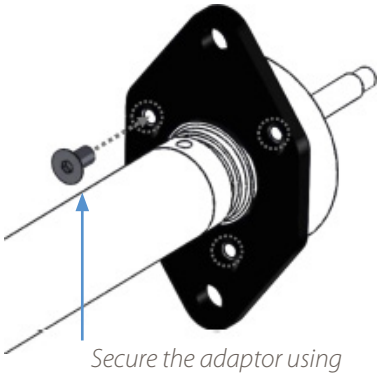
Your new sensor has been factory set up to operate straight from the box using factory default parameters suited to a wide variety of applications. This allows the minimum of set up activities for most applications.

Getting Started

Step 1
Fit 19 x 1.5 O-Ring



Step 2
Fit the adaptor (Gill or customer supplied)

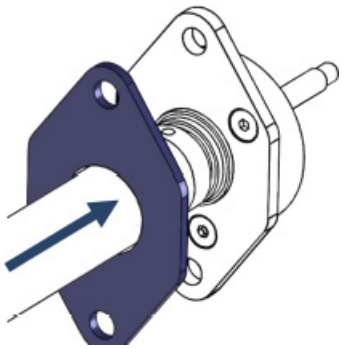


Secure the adaptor using M3 x 6 CSK screws. (3 places)

Note: The adaptor has 3 possible orientations
Note: Thread lock pre-applied. Tighten to 1.3Nm with 2.0mm Hex Key

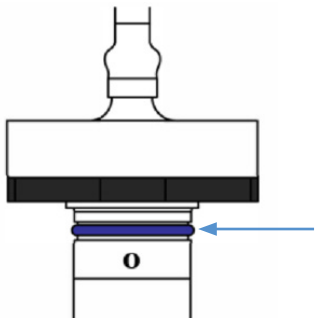
Choose either step 3a or 3b depending on installation type

Step 3a
Fit the panel gasket



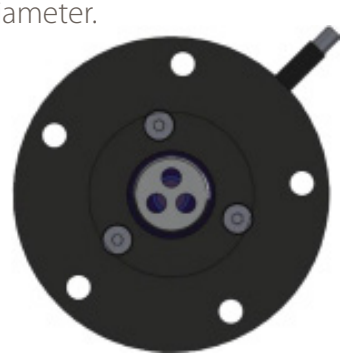
Note: Not required if using the radial O-ring seal

Step 3b
Fit the 13 x 1.5 O-Ring



Note: Not required if using the face mounting gasket

Step 4 SAE 5 Bolt - Orientation check
Place assembled sensor on the page and align the cable and the adaptor outer diameter.



Note: All of the white holes should be visible through the adaptor when the orientation is correct.

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Electrical connections

Connecting the sensor shuould be carried out according to the following table

RED	+V (5-32VDC)
BLACK	-V (Ground)
ORANGE	Primary output (0.25 to 4.75VDC)
BLUE	Secondary output (refer to datasheet)
GREEN	RS232 Rx line
WHITE	RS232
SILVER	Drain Wire

Supply Voltage: +5 to +32 VDC
Supply Current: <20 mA
Note: The power supply must be at least 0.5V greater than the maximum output voltage required. The switch output requires a pull-up resistor of 1 kOhm to 1 O kOhms.

Sensor outputs

The primary output of the sensor is factory calibrated to a range of 0.25 V to 4.75 V. The sensor can be configured to a maximum output range of 0.25 V to 10 V.

The sensor's secondary output is either switch or temperature output as follows:

- **Switch:** Open collector output of 50V / 1A max switch to -V (ground)
- **Temperature:** 0.25 V to 4.75 V where 0.25 V = -40°C and 4.75 V = + 125°C

After sales support

Should you require after sales assistance with this product, please go to www.gillsc.com where you can request support by clicking on the "Get Support" button and filling out the form. Alternatively, call us during UK office hours on 01590 613900 (UK). Please have details of the product and serial number whenever possible.

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