



*Examples of current Oil level sensors



Key Features

- No Moving Parts
- High Accuracy
- Race Proven
- Thermally Stable
- Fully Submersible
- Lightweight
- Fully Configurable Output
- Individually designed

Gill Motorsport Oil Level Sensors are specifically designed for use in dry sump engine oil tanks. Gill design and manufacture each sensor to match the customer's exact requirements and with no moving parts used within the construction, this product is a genuine solid-state device.

Each sensor is designed with integrated electronics and a customer specified harness or integrated connector. A novel use of a capacitive measurement technique combined with compact, lightweight, robust designs ensure this sensor is the preferred choice for many engine designers and user groups. Most designs can be offered with integrated oil temperature monitoring and multiple on-board oil grade calibration storage functions, enabling the sensor to be instantly re-configured in up to 12 different oil types without the need to remove the sensor from the vehicle or application. High temperature versions are also available for enclosed oil tank engine applications.

Every Gill M-Series sensor is fully user configurable using our own simple software enabling the level settings to be finely adjusted to suit individual precise requirements. Gill offer a race proven sensor that is the complete solution for the extreme demands of Motorsport.



Specification

Electrical

Supply Voltage	+6VDC to +24VDC
Supply Current	<10mA @12V
Serial Interface	RS422 (internal)
Resolution	10 bit
Sample Rate	10Hz or 80Hz

Analogue Output

Voltage Output Range	0.25V - 4.75V over sensing range or customer specified, fully configurable
Range Accuracy	±0.5% of fuel depth @20°C

Wiring

Wire/Connector	Customer Specified Flying lead or integrated connector of customer choice or combination
Wiring Gauge	Typically 26 AWG (options up to 20 AWG if requested)
Cable Material Compatibility	Wiring sleeved with either Fluorocarbon or Raychem DR25, or customised to customer specifications

Mechanical

Probe Length	0 - 700mm (customer to specify)
Mounting	Customer Specified, various standard options available
Weight	From only 80g (dependant on design)

Environmental

Protection Class	IP68
Operational Temperature	0°C to 125°C
EMC Immunity Level	SAE J1113/2 1996 design guideline
Vibration	15g RMS (24-2000Hz) & SAE J1455 design guidelines used
Finish	Anodised to DEF STAN 025

Oils

Compatible Medium	Engine (Mineral, Synthetics) Transmission Steering Hydraulic Diesel Heavy Oil
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Options

Oil Temperature Monitoring	Integral PT1000 available on some models
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Connectors

All Gill M-Series sensors can be supplied with customer-specified connectors. Some examples of popular connectors are below:

DEUTSCH



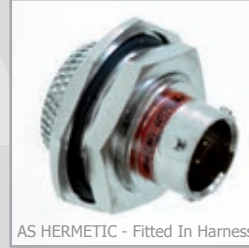
ASU - Fitted In Harness



ASU - Integrated



ASL - Integrated



AS HERMETIC - Fitted In Harness



ASC - Integrated / Harness Option

LEMO



HES - Integrated



FGS - Fitted In Harness

*We can supply sensors fitted with most connector requirements. Please contact us if you would like to discuss the available options



Dimensions

Gill M-Series sensors are custom-designed to your specifications. An example of an M-Series Oil level sensor currently used in Motorsport is illustrated below:

