



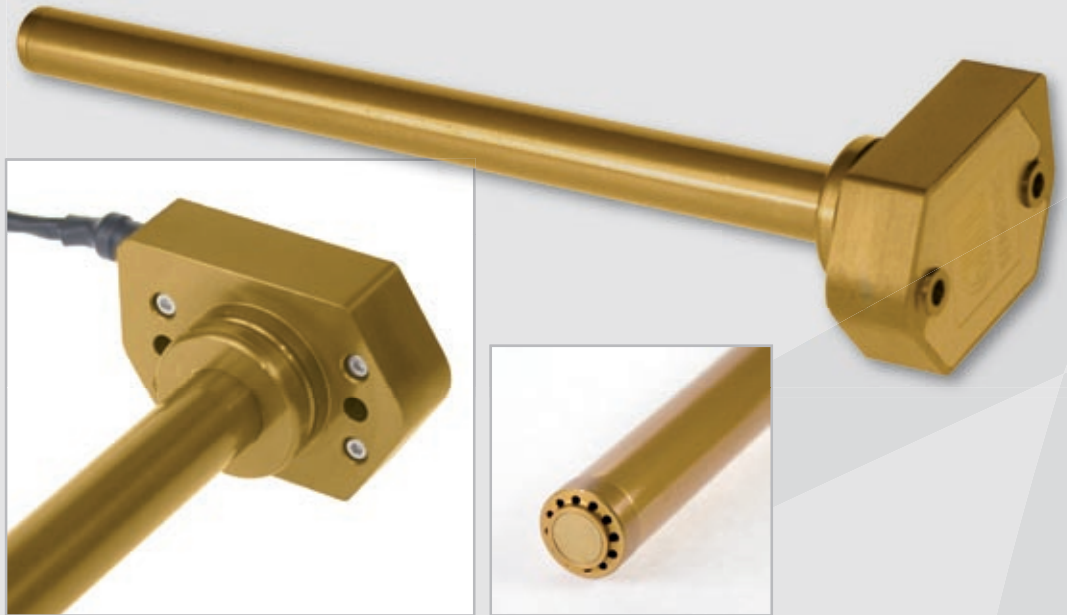
CUSTOM

Methanol/Ethanol Level Sensor



Key Features

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



*Examples of a current E10 Ethanol level sensor

Gill has produced a range of fuel collector level sensors specifically developed for methanol and ethanol based fuels. Each sensor is available in full Gill M-series specification designed to suit individual team requirements.

Each sensor can be totally immersed in methanol or any blend of ethanol ensuring the entire fuel depth measurement of the collector can be detected.

In addition to each sensor being factory calibrated by Gill in the fuel(s) of customer choice, the solid-state, lightweight construction results in a product with unparalleled quality and performance, the 1st choice in motor-sport fuel collector level sensors.



Specification

Electrical

Supply Voltage	+6VDC to +24VDC
Supply Current	<10mA @12V
Serial Interface	RS422 (internal)
Resolution	10 bit
Sample Rate	40Hz

Mechanical

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

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

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

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

BioFuels

Compatible Medium	Methanol Ethanol E100, E85, E50, E10 Please consult Gill for other biofuel compatibilities
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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



ASC - Integrated / Harness Option

LEMO



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 E10 Ethanol level sensor currently used in ALMS is illustrated below:

