

### PRODUCT INFORMATION

# GSM5310



## Hydrogen leak detection sensor module

The GSM5310 is a thermal conductivity hydrogen gas sensor module developed for leak detection applications in fuel cells, hydrogen ICEV, electrolyzers, refuelling stations and industrial applications using hydrogen where safety is paramount.

At its core the module uses our super-tiny FLS310 thermal conductivity gas sensor, which fits anywhere you need it to and enables the creation of custom solutions that fit your unique needs. The GSM5310 is one of the many sensor module concepts that the FLS310 can enable.

### Key benefits

- Low maintenance
- Long lifetime
- Reduced total cost of ownership
- Above LEL detection capabilities

## Applications



Fuel cells



Electrolyzers



Refuelling stations



Transport

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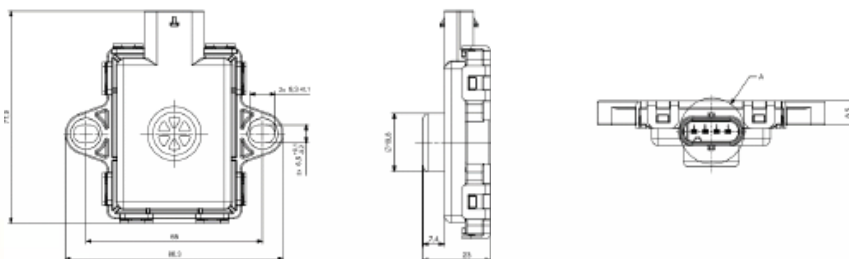


### Features

- High accuracy
- Fast start up and response time
- Very high immunity to poisoning
- CAN interface

### Module specifications

Parameter	Max value	Notes
Sensing error	$\pm \max \{ 1000 \text{ ppm}, 10 \% \text{ m.v. } \} \text{ ppm}$	With compensation for humidity; where m.v. is the measured value
Sensing range	0 – 4% hydrogen	Calibrated in the 0 – 4% range. Calibration up to 100% hydrogen concentration possible upon request
Startup time	<1 s	Time to first reading from power-up
Response time	<4 s	T90. Limited by diffusion rate through the filter membrane that protects the sensor component
Host interface	CAN 2.0B	
Power consumption	300 mW	Typical
Supply voltage	12 - 25 V	D.C. Supply of correct polarity
Ambient temperature	-40 – +85 °C	
Ambient humidity	0 – 95 %RH	Up to 40 g/m3
Mass	60 g	Approximately
Dimensions	80 mm × 78 mm × 23 mm (L × W × H)	



For a copy of the full product datasheet please visit [flussoltd.com](http://flussoltd.com)

To order a GSM5310 Evaluation Kit and to discuss your specific requirements for a customized sensor module contact [sales@flussoltd.com](mailto:sales@flussoltd.com)



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