

# CGSHi Datasheet Hydrogen Gas



24VAC or DC Power Input



Standalone Detector or Used with an CGS Controller



LED Status Indication Display Changes Color



BMS/BAS Communications



Modern & Compact Design



Alarm Relay Dry Contact



Plug & Play Installation

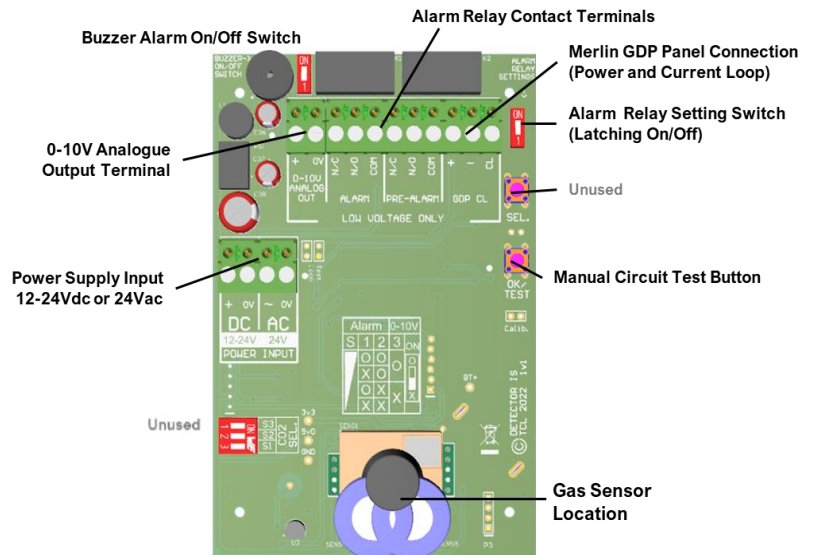


In-Built Audible Alarm

## Product Overview

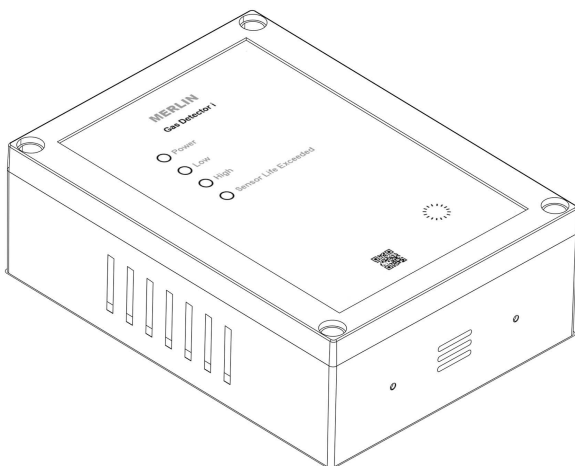
The i range of CGS detectors work in combination with the CGS Merlin range of Gas Detection panels and Utility Controllers or can be used as a standalone detector. The CGSHi features a semiconductor sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

## Popular Applications



# Technical Specification

General							
Product:	Merlin Detector i						
Models (Target Gas):	Hydrogen Gas						
Size: (H x W x D)	5.95 x 4.37 x 1.97" (151 x 111 x 50mm)						
Housing Material:	ABS PA765. Flame Retardant UL 94V-1						
Mounting:	Safe Zone - Indoor use - Wall Mounted						
Weight:	212g						
User Interface							
Display:	N/A						
Screen Brightness:	N/A						
Visual Indicators:	Power (Green) Low Alarm (Yellow) High Alarm (Red) EOL (Yellow)						
Audible Alarm:	>65dB @ 3.28ft (1m). Quiet conditions.						
Language:	English						
Power Supply							
Rated Power:	1.8W Max						
Rated Voltage:	12-24Vdc or 24Vac						
Relays							
Volt Free BMS relay outputs:	1A switching current (resistive load) @ 24V AC/DC						
Environmental							
Ingress Protection (IP):	Not Formally Evaluated						
Operating:	-10 ~ 50°C / 20 ~ 90% RH (non-condensing)						
Storage:	0 ~ 50°C / 30 - 80% RH (no condensation)						
Altitude Rating:	2000m						
Wiring							
Typical	Min. 2.5mm <sup>2</sup> / 75°C min / Tinned copper.						
Compliance							
Electrical Safety & EMC	CE / UKCA BS EN 61010-1:2010 +A1:2019. & BS EN 50270.						
Sensor Specification							
Gas Sensor	Measuring Range (%LEL)	Calibration Gas	Response (T90)	Recovery (T10)	Alarm: 1 (Pre alarm warning)	Alarm: 2	*EOL (Years)
Hydrogen Gas	0-10%	10% LEL	<30s	<30s	▲ 8%LEL	▲ 10%LEL	10



## Area of coverage

Consider the coverage required and function of the area. Emphasis should be placed on airflow patterns and correct placement, not perceived detecting ranges.

The CGSHi monitor should be installed approximately 1ft from the ground level.

Find out more

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