![AGS - American Gas Safety logo]

AGSHi Datasheet

Hydrogen Gas

MERLIN
Gas Detector i

- Power
- Low
- High
- Sensor Life Exceeded

24VAC or DC Power Input

LED Status Indication Display Changes Color

Modern & Compact Design

Plug & Play Installation

Standalone Detector or Used with an AGS Controller

BMS/BAS Communications
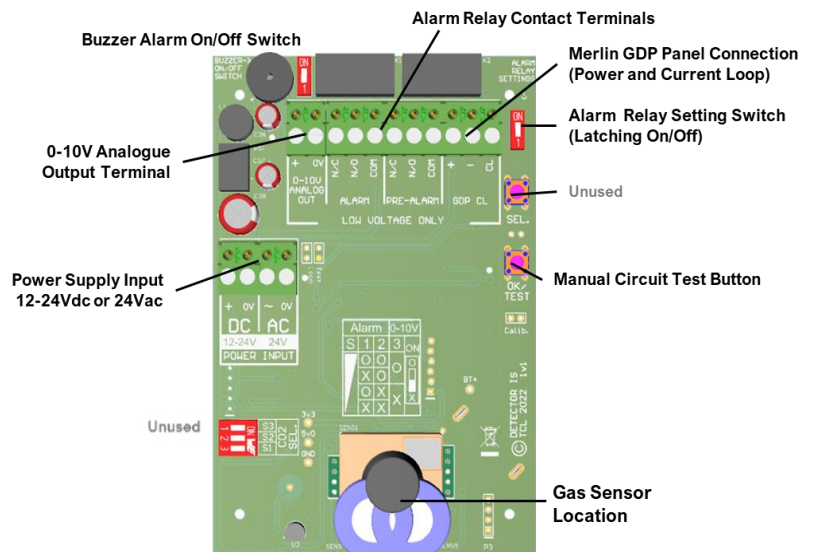
Alarm Relay Dry Contact
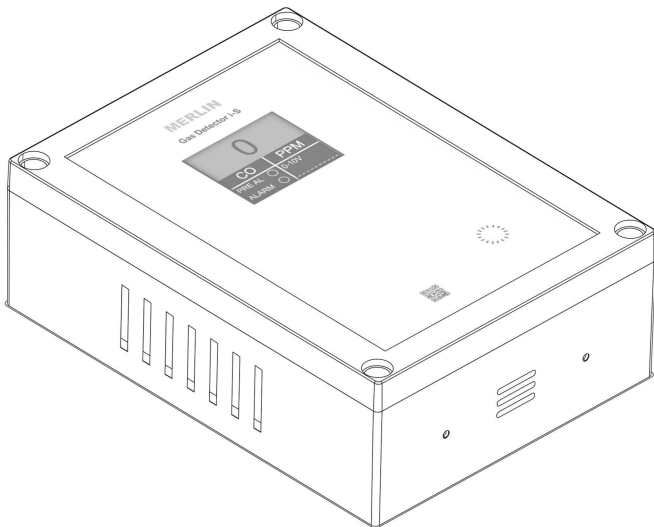
In-Built Audible Alarm

Product Overview

The i range of AGS detectors work in combination with the AGS Merlin range of Gas Detection panels and Utility Controllers or can be used as a standalone detector. The AGSHi 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

Buzzer Alarm On/Off Switch

Alarm Relay Contact Terminals

Merlin GDP Panel Connection (Power and Current Loop)

Alarm Relay Setting Switch (Latching On/Off)

0-10V Analogue Output Terminal

Unused

Power Supply Input 12-24Vdc or 24Vac

Manual Circuit Test Button

Unused

Gas Sensor Location

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 / 14 - 122°F / 20 ~ 90% RH (non-condensing)
Storage:	0 ~ 50°C / 32 ~ 122°F / 30 - 80% RH (no condensation)
Altitude Rating:	2000m
Wiring	
Typical	Min. 2.5mm2 / 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 AGSHi monitor should be installed approximately 1ft from the ground level.

Find out more

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