CGS
CANADIAN GAS SAFETY

CGSHiS Datasheet
Hydrogen Gas

MERLIN
Gas Detector i-S

0

H	LEL%
PRE AL ○	0-10V
ALARM ○	- - - - - -

24VAC or DC Power Input

Standalone Detector or Used with an CGS Controller

Traffic Light Indicator Display Changes Color Dependent On Gas Levels

BMS/BAS Communications

Modern & Compact Design

Alarm Relay Dry Contact

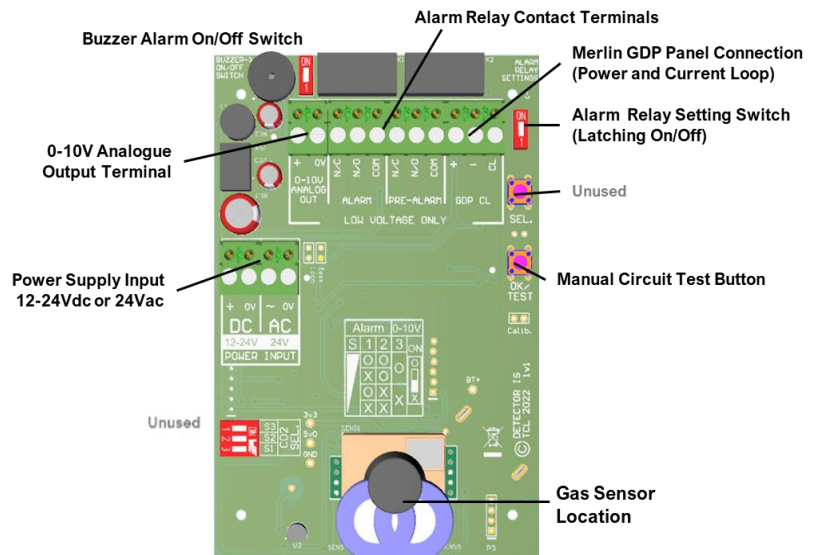**Plug & Play Installation**

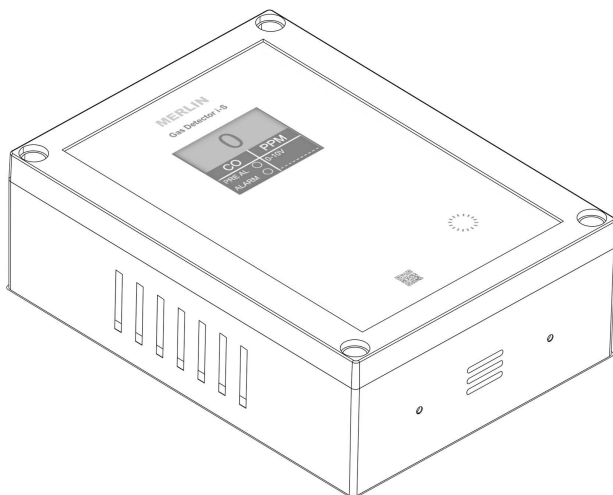**In-Built Audible Alarm**

Product Overview

The iS 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 CGSHiS 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)

0-10V Analogue Output Terminal

Alarm Relay Setting Switch (Latching On/Off)

Unused

Power Supply Input 12-24Vdc or 24Vac

Manual Circuit Test Button

Unused

Gas Sensor Location

Technical Specification

General	
Model:	Detector i-S
Target Gas	H
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:	1.8" TFT
Screen Brightness:	Non-Adjustable
Visual Indicators:	Gas Level (Green: Normal; Yellow: Pre-Alarm; Red: Alarm) 0-10V Output: Relay Output
Audible Alarm:	>65dB @ 3.28ft (1m). Quiet conditions.
Language:	English

Power Supply	
Max. Power Consumption:	1.8W
Power Rating:	12-24V AC or DC

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. 2.5mm2 / 75°C min / Tinned copper.

Approvals	
Electrical Safety	BS EN 61010-1:2010 +A1:2019.
Electromagnetic Compatibility	BS EN 50270.

Sensor Specification	
Factory Calibration Conditions	25° ± 5°C - 77° ± 41°F (40-70% RH)
Sensor Type	Semiconductor

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 CGSHiS monitor should be installed approximately 1ft from the ceiling.

Find out more

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