

## Detector iS Gas Detector



### Key Features:

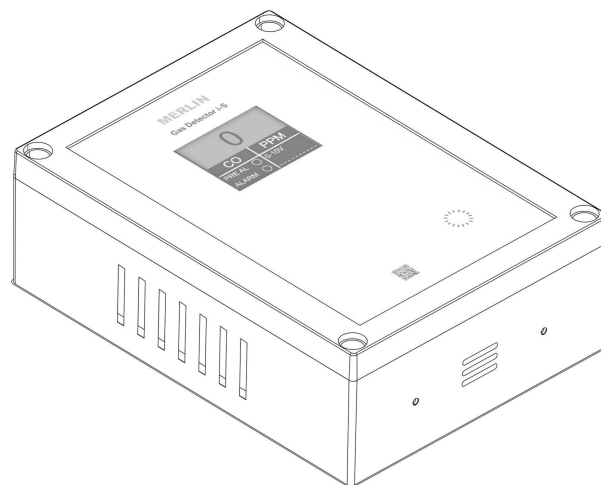
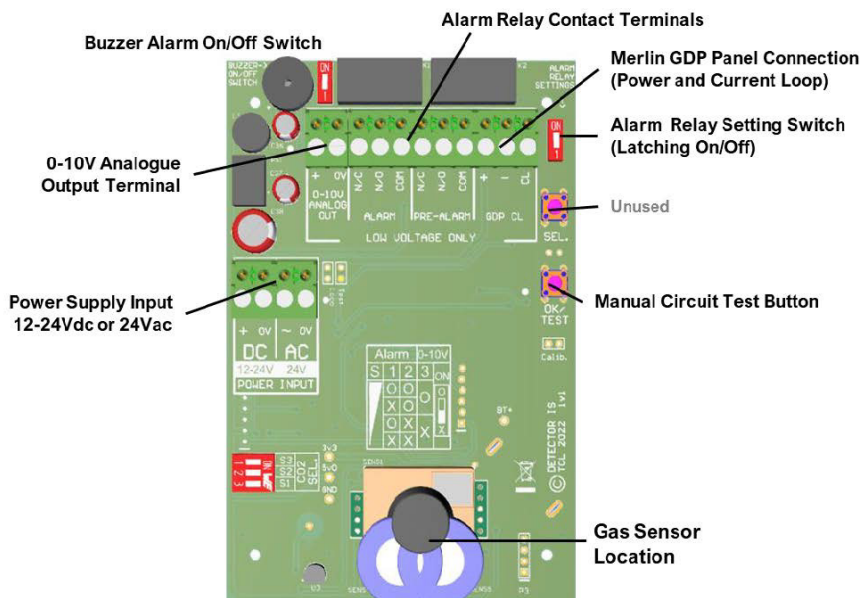
- 24VAC or DC Power Input
- Traffic Light Indicator Display Changes Color Dependent On Gas Levels
- Modern & Compact Design
- Plug & Play Installation
- Standalone Detector or Used With An S&S Controller
- Alarm Relay Dry Contact
- In-Built Audible Alarm
- Duct Mount Kit Available (Refer to Duct Mount detector sheet)

### Product Overview:

The iS Detector is a standalone gas detector that operates on 24VAC or DC power input. Featuring a traffic light indicator display that changes color based on gas levels, it provides clear visual alerts. Its modern and compact design, along with plug & play installation, ensures easy setup and use. The iS Detector supports BMS/BAS communications, includes an in-built audible alarm, and has an alarm relay dry contact for added safety. It detects various gases, including natural gas, carbon monoxide, LPG, hydrogen, nitrogen dioxide, and carbon dioxide.

### Gases Available

- Natural Gas (CH<sub>4</sub>)
- Carbon Monoxide (CO)
- LPG (C<sub>3</sub>H<sub>8</sub>)
- Hydrogen (H<sub>2</sub>)
- Hydrogen Sulphide (H<sub>2</sub>S)
- Nitrogen Dioxide (NO<sub>2</sub>)
- Carbon Dioxide (CO<sub>2</sub>)



## Detector iS Technical Specifications

### General

Model:	Detector iS Range
Target Gases:	See first page
Size: (H x W x D)	5.95 x 4.37 x 1.97"
Housing Material:	ABS Polylac - PA765
Mounting:	1FT A.F.F. - Indoor Use - Wall Mounted
Weight	0.21kg

### User Interface

Display	1.8" TFT
Screen Brightness:	Non-Adjustable
Visual Indicators:	TFT visual. Green: Normal; Yellow: Pre-Alarm; Red: Alarm
Audible Alarm:	>95dB @ 1m conditions
Buttons:	None
Language:	English

### Power Supply

Power Consumption:	90mA Max @ 24vdc
DC Power:	12-32 VDC - Nominal 24 VDC
Internal Fuse:	None

### Equipment

Overvoltage Category:	III
Pollution Degree:	3

### I/O

Relay:	Volt Free (Normally Closed / Common / Normally Open) 1x 30vdc 2A (Non-Latching)
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### Environmental

Operating:	-10 ~ 50°C / 14 ~ 122°F 30 ~ 80% RH (non-condensing)
Storage	-25 ~ 50°C / -13~122°F up to 95% RH (non-condensing)
Atmospheric Pressure:	70-110kPa
Altitude Rating:	<9500ft

### Wiring

Typical	#18-24AWG Power Pair; #18-24AWG Data Pair-Tinned copper.
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### Approvals

Electromagnetic Compatibility and Electrical Safety	BS/IEC/EN 61010-1 EMC EN 50270
Sensor Agency Approvals	UL Recognized Component for ANSI/UL-2034, UL-2075

### Other

Communication	RS485 MODBUS RTU
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### Sensor Specifications

	NGiS	LPGiS	HiS	H2SiS	NO2iS	CO2iS	COiS
<b>Indicating Range</b>	0-20% LEL	0-20% LEL	0-20% LEL	0-20ppm	0-20ppm	0-5000ppm	0-999ppm
<b>Alarm 1 (Pre Alarm)</b>	<8% LEL	<8% LEL	<8% LEL	<5ppm	<0.7ppm	<800ppm	<20ppm
<b>Alarm 2 (Alarm)</b>	<10% LEL	<10% LEL	<10% LEL	<10ppm	<2ppm	<1000ppm	<See Below
<b>End Of Life</b>	10 Years	10 Years	10 Years	3 Years	3 Years	10 Years	5 Years

**Carbon Monoxide TWA Exposure Alarm Levels:** <20ppm @2 hours <50ppm @ 1 hour <100ppm @ 10 minutes <300ppm @ 1 minute