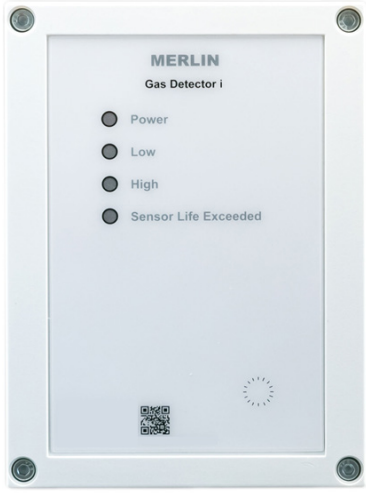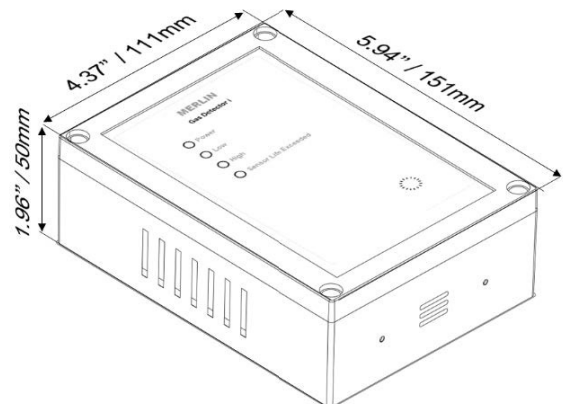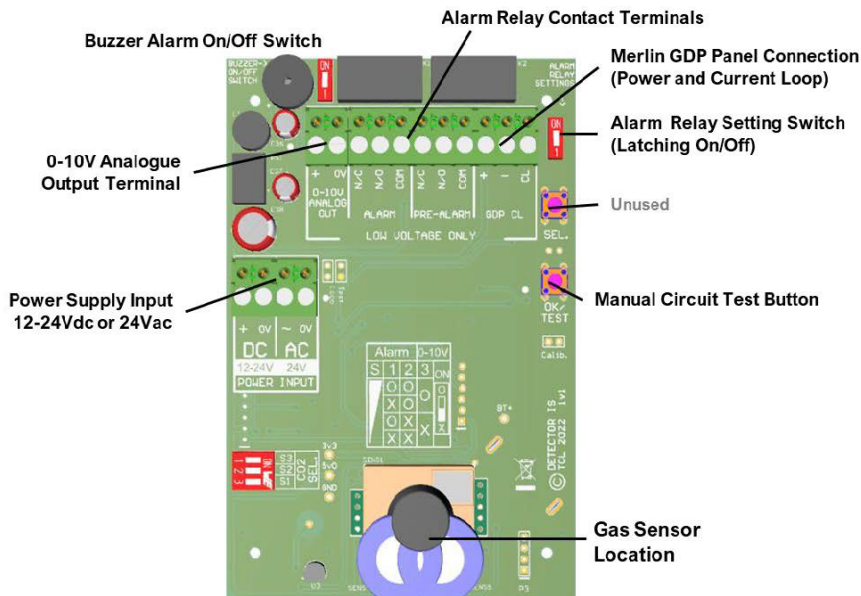# AGSi Gas Detector

Key Features:
- 24VAC or DC Power Input
- LED Status Indication
- Modern & Compact Design
- Plug & Play Installation
- Standalone Detector or Used With An AGS Controls Controller
- Alarm Relay Dry Contact
- In-Built Audible Alarm
- Duct Mount Kit Available (Refer to AGSi Duct Mount Sheet)

Product Overview:

The AGS Controls i Detector is a standalone gas detector that operates on 24VAC or DC power input. It features a modern, compact design with an LED status display, BMS/BAS communications, and an in-built audible alarm. With plug & play installation, an alarm relay dry contact, and support for various gases like natural gas, carbon monoxide, LPG, hydrogen, nitrogen dioxide, and carbon dioxide, the i Detector offers flexible monitoring options.

Gases Available

- Natural Gas (CH4)
- Carbon Monoxide (CO)
- LPG (C3H8)
- Hydrogen (H2)

- Hydrogen Sulphide (H2S)
- Nitrogen Dioxide (NO2)
- Carbon Dioxide (CO2)

AGSi Detector Technical Specifications

General

Model:	AGSi Detector
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	Max. 1.77oz

User Interface

Display	N/A
Screen Brightness:	N/A
Visual Indicators:	LED Status Indications
Audible Alarm:	>95dB @ 3.28ft 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)

Environmental

Operating:	-10 ~ 50ºC / 14 ~ 122ºF 30 ~ 80% RH (non-condensing)
Storage	-25 ~ 50ºC / -13~122Fº 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.

Approvals

Electromagnetic Compatibility and Electrical Safety	BS/IEC/EN 61010-1 EMC EN 50270

Other

Communication	RS485 MODBUS RTU

Sensor Specifications

	NGi	LPGi	Hi	H2Si	NO2i	CO2i	COi
Indicating Range	0-20% LEL	0-20% LEL	0-20% LEL	0-20ppm	0-20ppm	0-5000ppm	0-999ppm
Alarm 1 (Pre Alarm)	<8% LEL	<8% LEL	<8% LEL	<5ppm	<0.7ppm	<800ppm	<20ppm
Alarm 2 (Alarm)	<10% LEL	<10% LEL	<10% LEL	<10ppm	<2ppm	<1000ppm	<See Below
End Of Life	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