

CGSCO2iS

Datasheet

Carbon Dioxide Detector



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

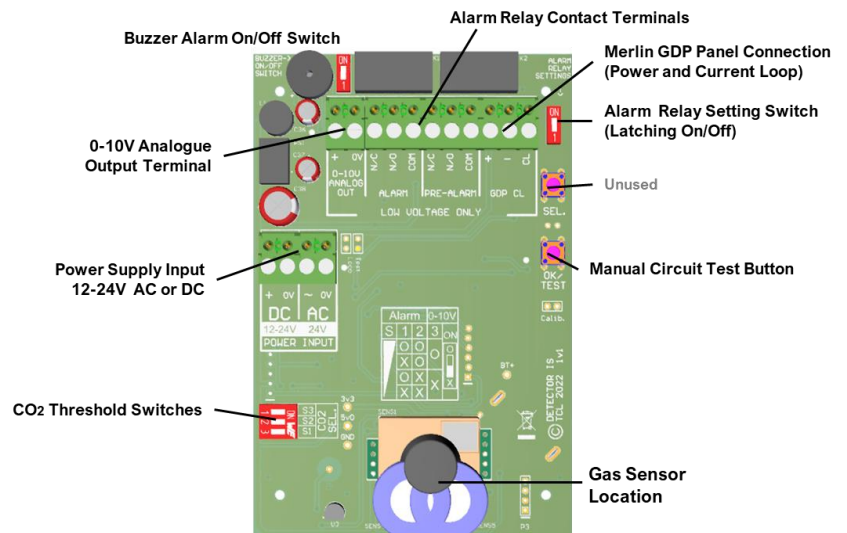


In-Built Audible Alarm

Product Overview

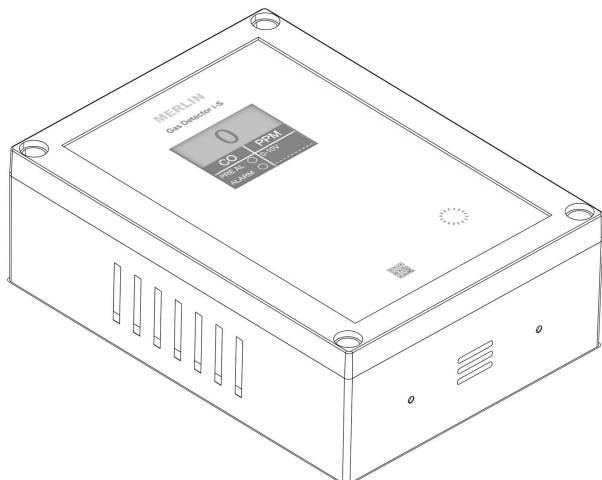
The iS range of CGS detectors work in combination with the CGS Merlin range of Gas Detection panels and Utility Controllers or can be used as a standalone detector. The CGSCO2iS features a NDIR sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

Popular Applications



Technical Specification

General							
Model:	Detector i-S						
Target Gas	CO ₂						
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. 2.5mm ² / 75°C min / Tinned copper.						
Approvals							
Electrical Safety	BS EN 61010-1:2010 +A1:2019.						
Electromagnetic Compatibility	BS EN 50270.						
Sensor Specification							
Gas Sensor	Measuring Range	Steps	Response (t90)	Recovery (t10)	Pre-Alarm:	Alarm:	*EOL (Years)
NDIR. Intelligent Infrared CO ₂ Module. ABC Logic Auto Calibration							
Carbon Dioxide (CO ₂) (Default Setting)	0-5000ppm	1	<50s	<60s	▲800ppm	▲1000ppm	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 CGSCO2iS monitor should be installed approximately 5ft 6" from the ground level.

Find out more

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