

# CGSCO2i Datasheet Carbon Dioxide

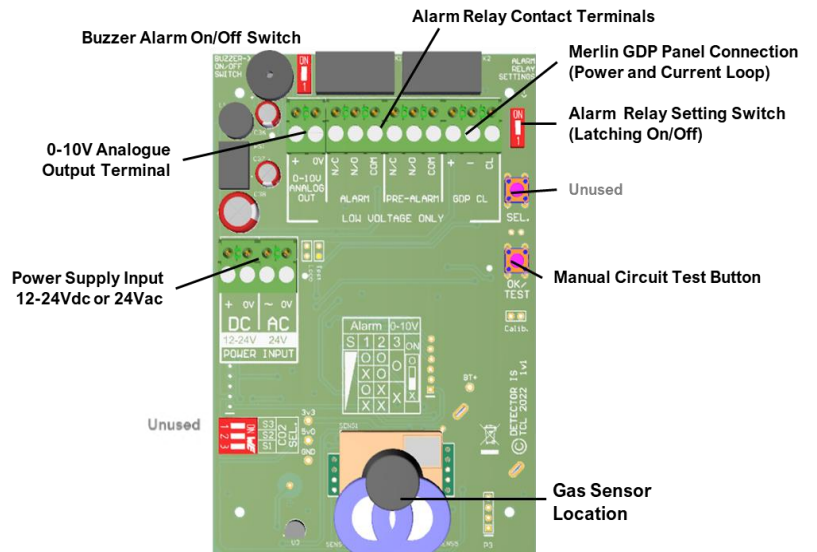


-  **24VAC or DC Power Input**
-  **Standalone Detector or Used with an CGS Controller**
-  **LED Status Indication Display Changes Color**
-  **BMS/BAS Communications**
-  **Modern & Compact Design**
-  **Alarm Relay Dry Contact**
-  **Plug & Play Installation**
-  **In-Built Audible Alarm**

## Product Overview

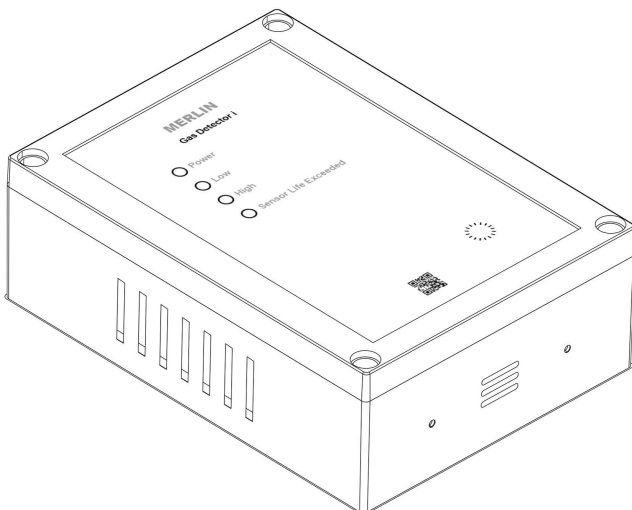
The i range of CGS detectors work in combination with the CGS Merlin range of Gas Detection panels and Utility Controllers or can be used as a standalone detector. The CGSCO2i features an NDIR sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

## Popular Applications



# Technical Specification

General							
Product:	Merlin Detector i						
Models (Target Gas):	Carbon Dioxide (CO <sub>2</sub> )						
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 / 20 ~ 90% RH (non-condensing)						
Storage:	0 ~ 50°C / 30 - 80% RH (no condensation)						
Altitude Rating:	2000m						
Wiring							
Typical	Min. 2.5mm <sup>2</sup> / 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	Steps	Response (t <sub>90</sub> )	Recovery (t <sub>10</sub> )	Pre-Alarm:	Alarm:	*EOL (Years)
NDIR. Intelligent Infrared CO <sub>2</sub> Module. ABC Logic Auto Calibration							
Carbon Dioxide (CO <sub>2</sub> ) (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 CGSCO<sub>2</sub>i monitor should be installed approximately 5ft 6 inch from the ground level.

Find out more

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