

CGSO2i Datasheet

Oxygen Depletion / Enrichment



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

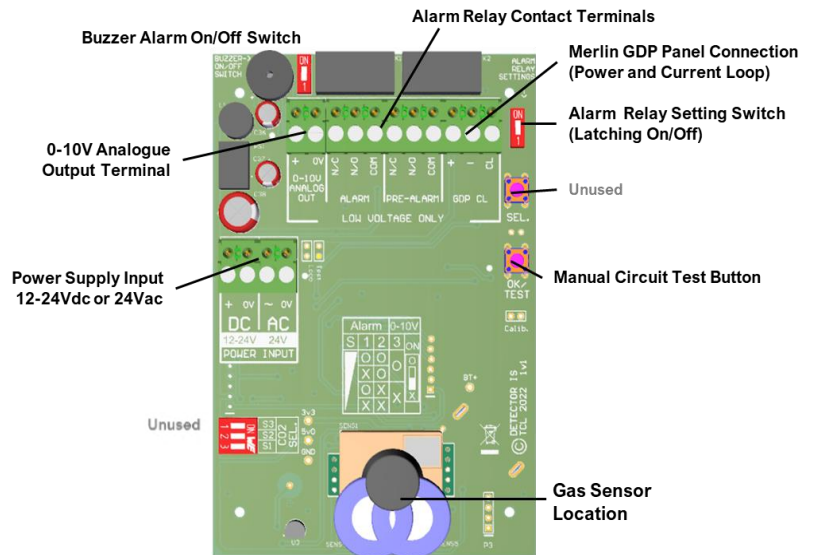


In-Built
 Audible Alarm

Product Overview

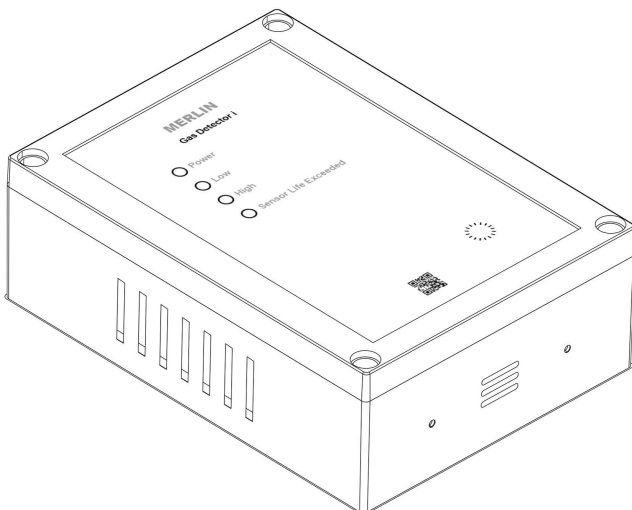
The i range of CGS detectors work in combination with the CGS Merlin range of Gas Detection panels and Utility Controllers or can be used as a standalone detector. The CGSO2i features an electrochemical sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

Popular Applications



Technical Specification

General							
Product:	Merlin Detector i						
Models (Target Gas):	Oxygen Depletion / Enrichment (O2)						
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 ² / 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 (V/V %)		Response (T90)	Recovery (T10)	Alarm: 1 (Pre alarm warning)	Alarm: 2	*EOL (Years)
Oxygen O2	0-25%		<60s	<60s	▼19.5%	▼18.5% or ▲23%	2



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 CGSO2i monitor should be installed approximately 3-5ft from the ground level.

Find out more

Canadian Gas Safety Inc
www.canadiangassafety.com

Head office: 150 King Street West Suite 200,
Toronto, ON M5H 1J9
Tel: (647) 577-1500
Email: info@canadiangassafety.com

