



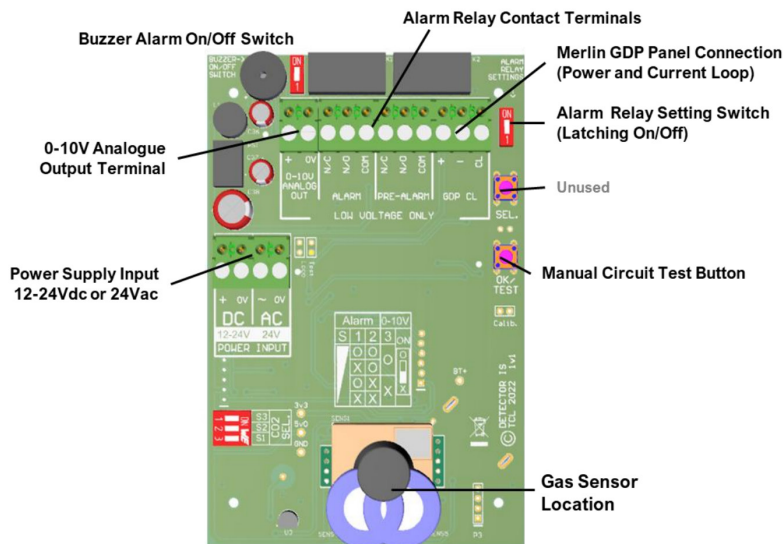
Features

- 24VDC Power Input
- Traffic Light Indicator Display Changes Color Dependent On Gas Levels
- Modern & Compact Design
- Plug & Play Installation
- Standalone Detector or Used with a CGS Controller
- Alarm Relay Dry Contact
- In-Built Audible Alarm
- BMS/BAS Communications

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 CGSCOiS features an electrochemical sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

Circuit board Diagram



Popular Applications



Technical Specifications

General	
Model:	Detector i-S
Target Gas	CO
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	
2 Volt Free relay outputs:	1A switching current (resistive load) @ 24V AC/DC
Environmental	
Ingress Protection (IP):	Not Formally Evaluated
Operating:	-10 ~ 50°C / 14 ~ 122°F / 20 ~ 90% RH (non-condensing)
Storage:	0 ~ 50°C / 32 ~ 122°F / 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	
Factory Calibration Conditions	25° ± 5°C - 77° ± 41°F (40-70% RH)
Sensor Type	Electrochemical

Alarm Type	LOW Pre-Alarm	Buzzer	HIGH Main Alarm	Buzzer
CO - TWA	▲ 20ppm	None	▲ 20ppm after Two (2) Hours ▲ 50ppm after One (1) Hour ▲ 100ppm after Ten (10) Minutes ▲ 300ppm after One (1) Minute	Continuous sound
CO - PSA	▲ 25ppm		▲ 100ppm	
CO - 50	▲ 25ppm		▲ 50ppm	
CO - 35	▲ 20ppm		▲ 35ppm	

Areas 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 CGSCOiS monitor should be installed approximately 5ft 6inch from the ground level.