AMERICAN GAS SAFETY

AGSO2TFT Datasheet

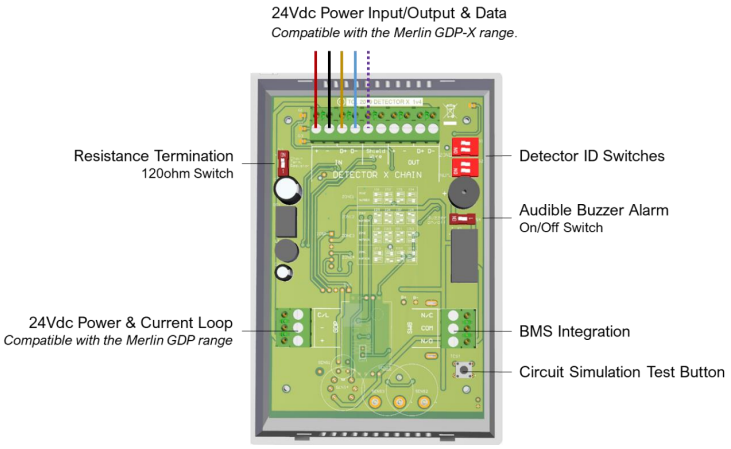
Oxygen Depletion / Enrichment Gas Detector

- 24VDC Power Input
- Detector should be used with an AGS Controller
- Traffic Light Indicator Display Changes Color Dependent On Gas Levels
- BMS & MODBUS Communications
- Modern & Compact Design
- Alarm Relay Dry Contact
- Plug & Play Installation
- In-Built Audible Alarm

Product Overview

The TFT range of AGS detectors work in combination with the AGS Merlin range of Gas Detection panels and Utility Controllers. The AGSO2TFT features an electrochemical sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

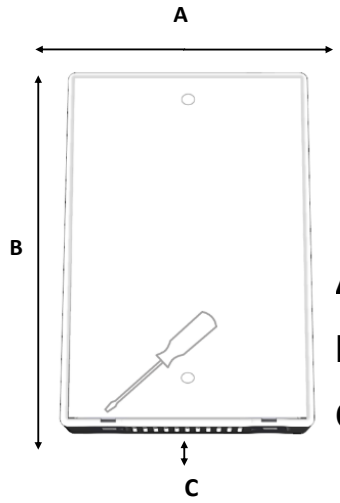
Popular Applications



Technical Specification

General	
Model:	Merlin Gas Detector TFT
Target Gases:	O2
Size: (H x W x D)	5.51 x 3.74 x 1.18” (140 x 95 x 30mm)
Housing Material:	ABS Polylac - PA765
Mounting:	Safe Zone - Indoor use - Wall Mounted
Weight:	Max. 1.77oz (0.05kg)
User Interface	
Display:	1.8” TFT
Screen Brightness:	Non-Adjustable
Visual Indicators:	TFT visual. Green: Normal; Yellow: Pre-Alarm; Red: Alarm
Audible Alarm:	>70dB @ 3.28ft (1m). Quiet 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	
Ingress Protection:	Not Formally Evaluated
Operating:	-10 ~ 50°C / 14 ~ 122°F 30 ~ 80% RH (non-condensing)
Storage:	-25 ~ 50°C / -13~122F° up to 95% RH (non-condensing)
Altitude Rating:	2000m
Wiring	
Typical	#15AWG Power Pair; #18AWG Data Pair-Tinned copper.
Approvals	
Electromagnetic Compatibility and Electrical Safety	BS/IEC/EN 61010-1 EMC EN 50270
Other	
Communication	RS485 MODBUS RTU

Gas Sensor	**Indicating Range**	**Steps**	**Response (t90)**	**Recovery (t10)**	**Alarm: 1** (Pre alarm warning)	**Alarm: 2**	***EOL** (Years)
Oxygen (O_2)	0-30% V/V	0.1	<30s	<60s	▼19.5% V/V	▼18.5% V/V ▲23% V/V	2



A. 3.74 inch

B. 5.51 inch

C. 1.18 inch

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 target gas will only be identified when contact is made with the sensing element itself.

The AGSO2TFT monitor should be installed approximately 3-5ft from ground level.

Find out more

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