

Merlin CO2X-MOD Datasheet

Carbon Dioxide Detector With MODBUS Communications





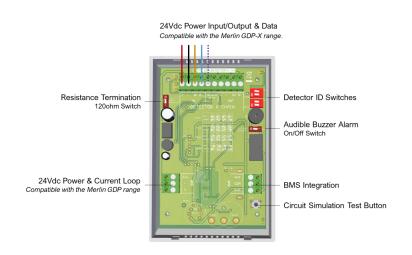


Product Overview

The TFT range of S&S detectors work in combination with the S&S Merlin range of Gas Detection panels and Utility Controllers. The Merlin CO2X-MOD features an NDIR sensor for industrial and commercial indoor applications. Compact, modern, digital design makes the units aesthetically pleasing and easy to install.

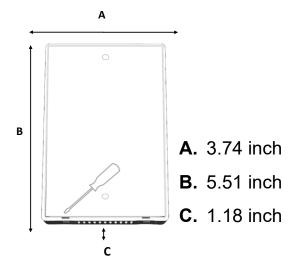
Popular Applications





Technical Specification

General							
Model:	Merlin Gas Detector X						
Target Gases:		CO2					
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:							
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		BS/IEC/EN 61010-1					
Electrical Safety		EMC EN 50270					
Other		DO ASS MODBIJO DTI					
Communication		RS485 MODBUS RTU					
Gas Sensor	Indicating Range	Steps	Response (t90)	Recovery (t10)	Alarm: 1 (Pre alarm warning)	Alarm: 2	*EOL (Years)
Carbon Dioxide (CO2)	400-5000ppm	1	<30s	<30s	▼2800ppm	▼4500ppm	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 target gas will only be identified when contact is made with the sensing element itself.

The MERLIN CO2X-MOD monitor should be installed approximately 5ft 6" from ground level.

Find out more

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