

AGSLPGCO-TWA Mini Merlin Datasheet

Combined LPG & Carbon Monoxide Monitor





Product Overview



The AGS Mini Merlin LPGCO-TWA is a dual gas sensor designed and tested to UL standards for the purpose of monitoring levels of Liquefied Petroleum Gas (LPG) and Carbon Monoxide (CO) in the air.

If there is a dangerous build-up of gas or unsafe levels of carbon monoxide at the sensor, this device can shut off fuel supplies or power supplies via gas valves and/or electrical contactors. On board relays can interrupt appliances built in safety circuits such as fan proving switch or louver proving switch.

This device has a manual reset button, as well as audible and visual alarm - it can also be integrated with a Building Management Systems and fire alarm control panels. Meets the TWA guidelines for Carbon Monoxide (CO) & Liquefied Petroleum Gas (LPG).

General							
Model:		Mini Merlin LPGCO TWA					
Target Gases:		LPG Gas & Carbon Monoxide					
Size: (H x W x D)		5.95 x 4.37 x 1.97" (151 x 111 x 50mm)					
Housing Material:		ABS PA765 (Flame Rating UL94 V-1)					
Mounting:		Safe Zone - Indoor use - Wall Mounted					
Weight:		12.24oz (0.347kg)					
Display:		1.8" TFT					
Visual Indicators:		TFT visual. Green: Normal; Yellow: Pre-Alarm; Red: Alarm					
Audible Alarm:		85db					
Buttons:		Multi-Function – Initial Start / Reset / Circuit Test					
Power Consumption:		3W max					
AC Power:		100-120V~ 50/60Hz					
Internal Fuse:		Anti-Surge 3.15A 250Vac					
Overvoltage Category:		II					
Volt Free BMS relay output:		0.5A switching current (resistive load)					
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)					
Wiring		Min. 18-22AWG					
Electrical Safety and		UL61010-1/2012/R:2019-07. UL2075 R:2013-02 Gas and Vapor Detectors and Sensors.					
Electromagnetic Compatibility		CAN CSA C22.2 No. 61010-1-12/A1:2018-11 / EMC EN 61326-1:2013					
Sensor Specification	▲ Rising Alarm ▼Falling alarm *EOL – Expected Operational Life						
Gas Sensor	Indicating Range	Steps	Response (t90)	Recovery (t10)	Alarm: 1 (Pre alarm warning)	Alarm: 2	*EOL (Years)
Electrochemical Sensors							
Carbon Monoxide (CO)	0-999ppm	1	<60s	<60s	▲20ppm	▲ 20ppm @ 2 hours / 50ppm @ 1 hour / 100ppm @ 10 minutes / 300ppm @ 1 min.	7
Semiconductor Sensors							
Liquefied Petroleum Gas (LPG)	0-20% LEL	0.1	<30s	<30s	▲8% LEL	▲ 10% LEL	10
	1						

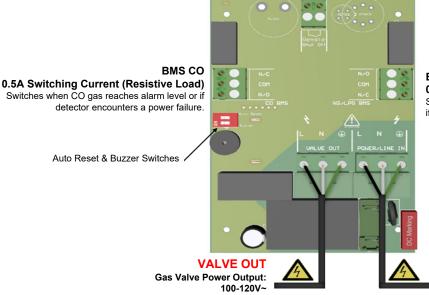




Circuit Board Overview

REMOTE SHUT OFF

Open / Close Circuit Connector Shuts off gas valve if external devices are activated i.e. fire alarm etc.



BMS LPG

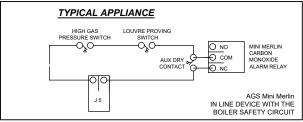
0.5A Switching Current (Resistive Load)

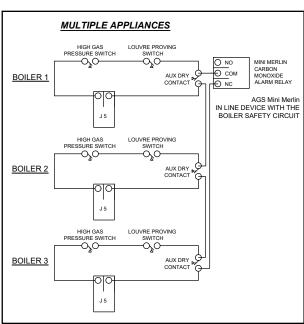
Switches when Methane gas reaches alarm level or if detector encounters a power failure.

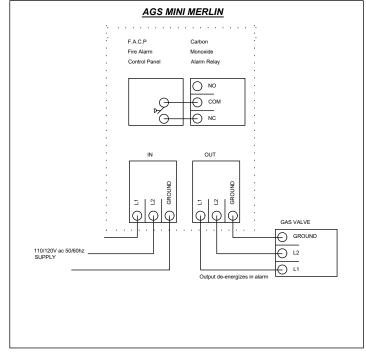
POWER/LIVE IN

Mains Input: 100-120V~

Wiring Examples







Find out more

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