

Mini Merlin Datasheet

Combined Combustible Gas & Carbon Monoxide Monitor



Product Overview

The AGS Mini Merlin dual gas detector provides protection over combustible gas leaks and high concentrations of carbon monoxide. An affordable and adaptable solution to carbon monoxide interlocks and emergency gas shut-down.

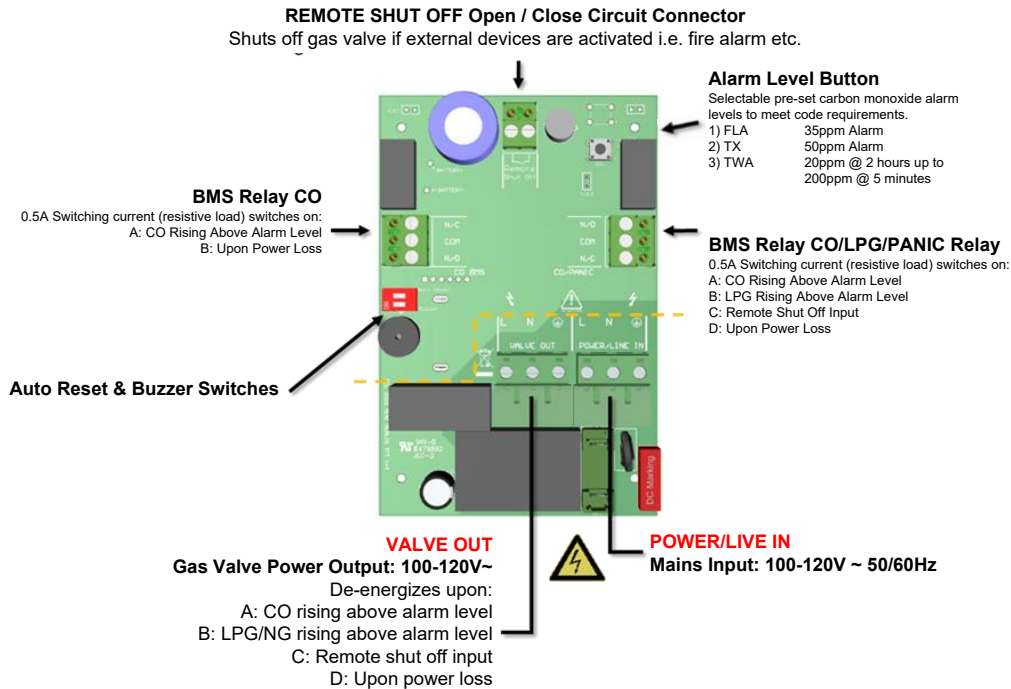
The Mini Merlin provides adaptable outputs to govern the supply of fuel or power to gas fired appliances and pre programmed relays to break limit circuits or signal building management systems or fire alarm. Simple inputs for remote panic buttons or fire alarms make the Mini a convenient wiring center in the mechanical room.

Design and listed to UL standards for the purpose of monitoring gas levels, with built in audible and visual alarm signals and a manual re-set button, the Mini Merlin is code compliant straight out of the box. Meets Texas TDLR – Section 65.2006, Georgia CO interlock rule 120-3-26-07 and Florida Statutes 509.211(4)

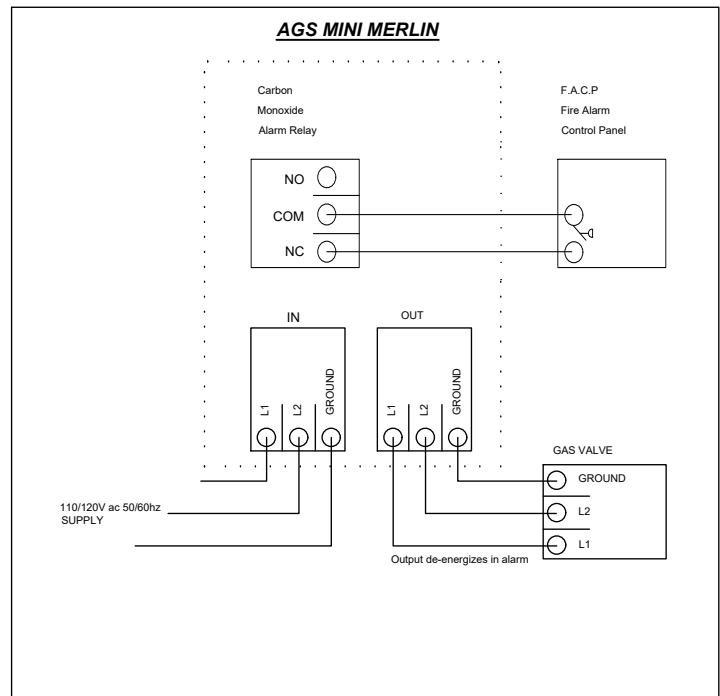
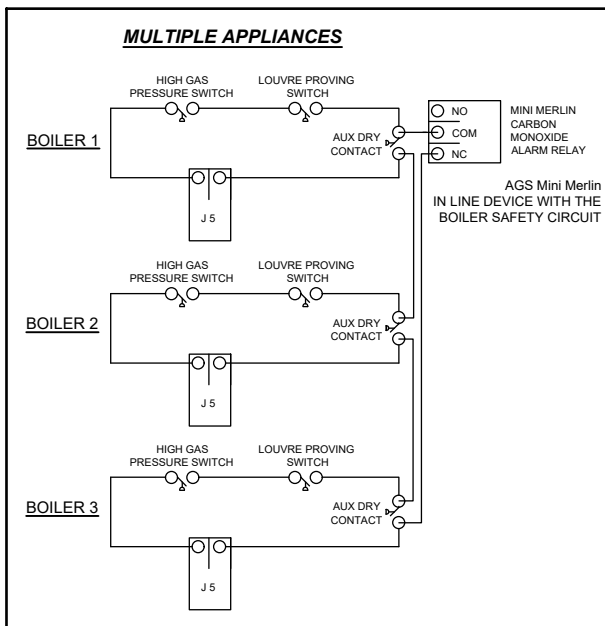
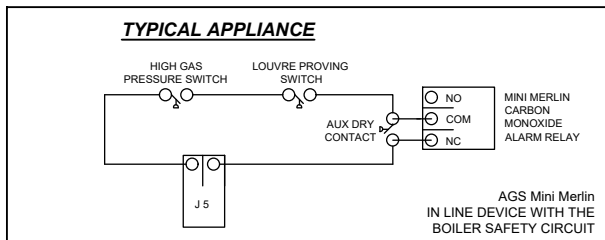


General			
Model:		Mini Merlin: (Natural Gas) CH4CO / (LPG) LPGCO	
Target Gases:		(CH4) Methane/Natural Gas & Carbon Monoxide / (LPG) LPG & Carbon Monoxide	
Size: (H x W x D)		5.95 x 4.37 x 1.97" (151 x 111 x 50mm)	
Housing Material:		ABS PA765 (Flame Rating UL94 V-1)	
Mounting:		Safe Zone - Indoor use - Wall Mounted 5-6ft AFF	
Weight:		12.24oz (0.347kg)	
Display:		1.8" TFT	
Visual Indicators:		TFT visual. Clear Status of %LEL or CO PPM and Alarm Condition	
Audible Alarm:		85db @ 6ft	
Buttons:		Multi-Function – Initial Start / Manual Reset / Circuit Test	
Power Consumption:		3W max	
AC Power:		100-120V~ 50/60Hz	
Internal Fuse:		Anti-Surge 3.15A 250Vac	
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:		Hard Wired 2# 18-22AWG Plus Ground Power	
Electrical Safety and Electromagnetic Compatibility:		UL61010-1/2012/R:2019-07. UL2075 R:2013-02 Gas and Vapor Detectors and Sensors. CAN CSA C22.2 No. 61010-1-12/A1:2018-11 / EMC EN 61326-1:2013	
Sensor Specification			
Sensor Type:		Carbon Monoxide (CO) - Semi-Conductor Natural Gas (NG) & Liquefied Petroleum Gas (LPG) - Electrochemical	
EOL - Expected Operational Life:		7-10 Years	
Models Available			
Button Selectable CO Alarm Levels:		Pre Selected Model:	***ADD CH4 for Nat. Gas (Methane) ***ADD LPG for LPG Gas
1) FLA >20ppm Pre Alarm	>35ppm Full Alarm	AGS***CO35	NG / LPG >8% LEL Pre Alarm <10% LEL Alarm
2) TX >35ppm Pre Alarm	>50ppm Full Alarm	AGS***CO50	
3) TWA Time Weighted Average	20ppm @ 2 hours up to 200ppm @ 5 minutes	AGS***COTWA	

Circuit Board Overview



Wiring Examples



Find out more

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