

# AGS Mini Merlin

## Natural Gas (Methane) & Carbon Monoxide



### Description

The Mini Merlin is a dual gas sensor carefully designed and tested to monitor levels of Natural Gas - Methane (CH<sub>4</sub>) 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 the gas supply via a gas safety valve and/or a gas fire appliance.

This device has additional features for resetting systems, as well as audible and visual alarms - it can also be integrated with a Building Management System (BMS).

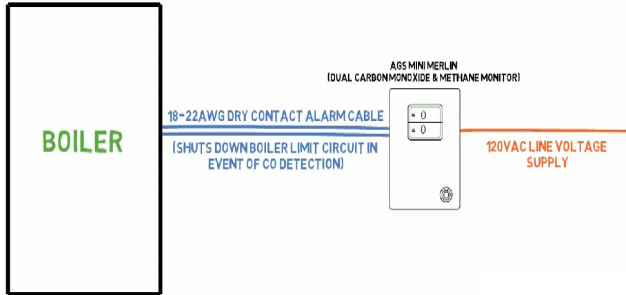
### Technical Specifications

Power Supply	100-120VAC, 50-60Hz
Current Consumption	3W Max
Gas Sensor	NG: Semi-conducting CO: Electrochemical
Typical Sensor Measuring Range	NG: 500 - 10,000ppm CO: 0 - 1,000ppm
Accuracy @ 25°C (77°F)	+/- <10%
Initial Power Up Time	One Minute
Low Level Alarm (Pre Alarm)	NG: 8% LEL by volume CO: 25ppm
High Level Alarm	NG: 10% LEL by volume CO: 50ppm
Volt free BMS relay output	0.5A switching current (resistive load)
Operation Conditions	-32 - 122°F; (0-50°C) 0 - 95%RH, Non Condensing
Net weight	8.54oz (242g) approx.
Device Dimensions	3.7(W)x5.5(H)x2.4(D)inch
Installation	Wall Mountable
Model No:	Mini Merlin CH4CO
Audible Alarm Rating	65db - 11.81inch away from unit
Enclosure Rating	NEMA 1

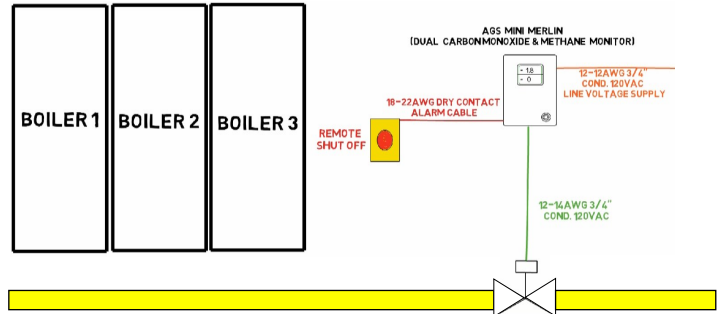
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## Wiring Applications

### Boiler Limit Circuit Shutdown

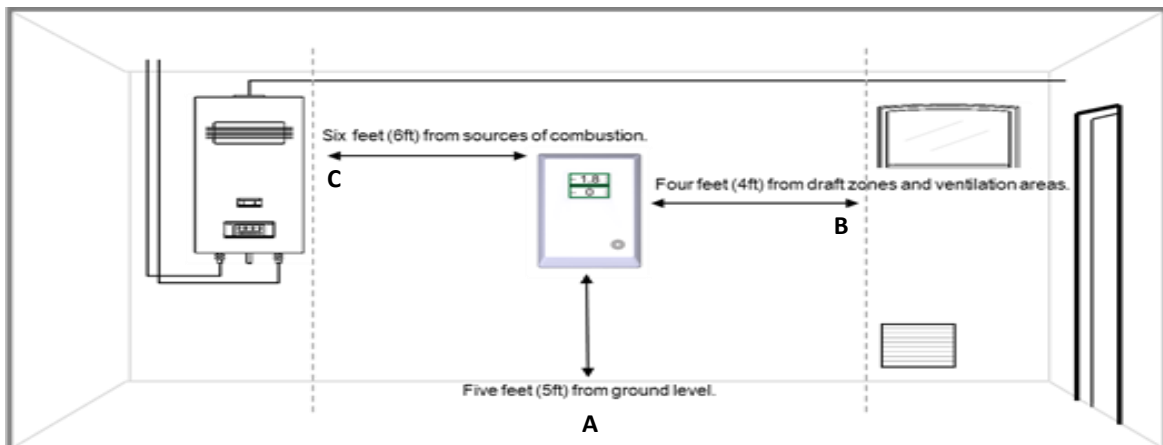


### Typical Mini Merlin Setup



### Typical Location and Positioning

Locations for detectors will vary based on the intended application, they should be located near identified sources of a potential gas leak/pockets where hazardous gas could quickly accumulate and areas of identified consequential risk.



- A) 6ft from sources of combustion i.e. boilers/heaters and gas fired cooking appliances etc.
- B) 4ft from draft zones and ventilation areas i.e. windows, doorways and A/C units etc.
- C) 5ft from ground level.

Recommendation heights may vary based on air flow and temperature conditions in addition to the proposed application and location. The device should be mounted near the boiler or gas fired appliance/s such as domestic & commercial boiler rooms and basements. When choosing your location, make sure you are able to hear the alarm from all areas.