

# AGS Mini Merlin

## Liquid Petroleum & Carbon Monoxide Gas



### Description

The Mini Merlin is a dual gas sensor carefully designed and tested to monitor levels of Liquid 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 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).

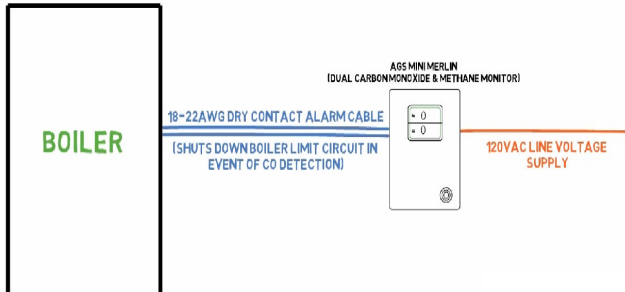
### Technical Specifications

|                                |   |
|--------------------------------|---|
| Power Supply                   | 100-120VAC, 50-60Hz                             |
| Current Consumption            | 3W Max  |
| Gas Sensor                     | LPG: Semi-conducting<br>CO: Electrochemical     |
| Typical Sensor Measuring Range | LPG: 500 - 10,000ppm<br>CO: 0 - 1,000ppm        |
| Accuracy @ 25°C (77°F)         | 12inch from ceiling                             |
| Initial Power Up Time          | One Minute                                      |
| Low Level Alarm (Pre Alarm)    | LPG: 8% LEL by volume<br>CO: 25ppm              |
| High Level Alarm               | LPG: 10% LEL by volume<br>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 LPGCO                               |
| Audible Alarm Rating           | 65db - 11.81inch away from unit                 |

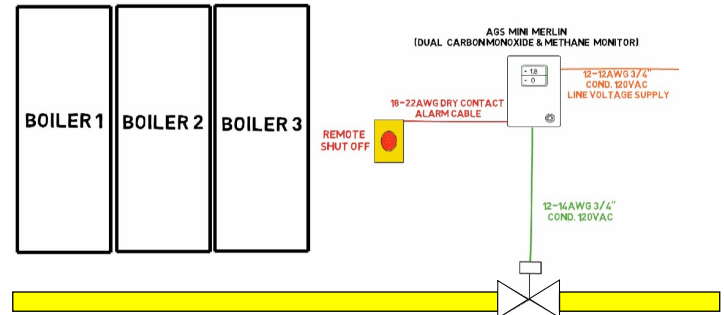
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## Wiring Applications

### Boiler Limit Circuit Shutdown

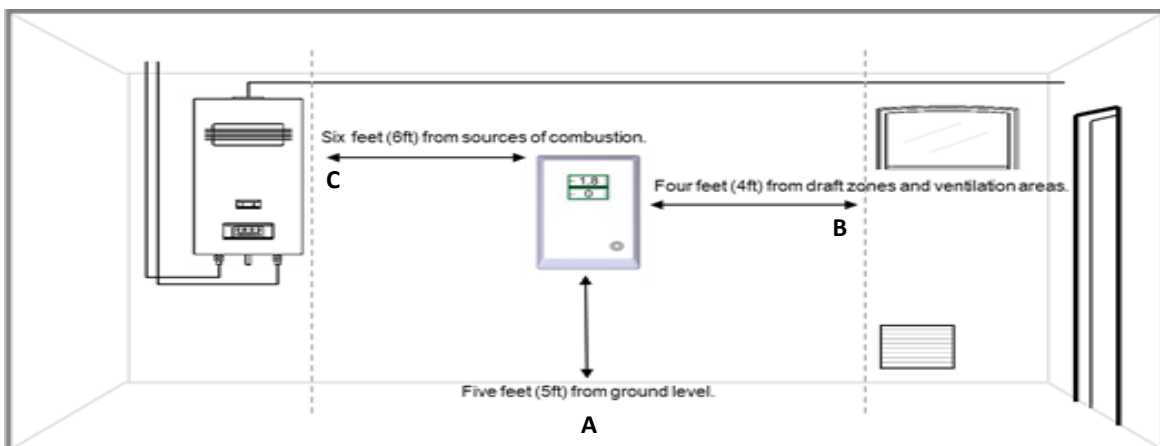


### Typical Mini Merlin Setup



### 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.