

Dual protection

CO & EXPLOSIVE GAS ALARM & ISOLATION

**GAS DETECTION
EQUIPMENT
ENGINEERED TO
DELIVER EXCEPTIONAL
LEVELS OF SAFETY**

UL **US LISTED**



AGS
AMERICAN GAS SAFETY

THE MINI MERLIN

Protecting you and your environment from the dangers of explosive gas and poisonous carbon monoxide



The MiniMerlin is a dual sensor which protects against the dangers of Natural Gas (Methane) leaks and/or Carbon Monoxide (CO) Poisoning.

Each year in the US there are an average of 400 deaths and 20,000 emergency room visits related to CO poisoning. CO is a tasteless, odorless gas which is produced wherever combustion occurs. Stoves, boilers, water heaters, grills and furnaces can all be sources of CO.

Natural Gas (Methane) is a flammable gas used to power appliances like stoves, boilers, water heaters, grills and furnaces and can create an explosive condition at certain concentrations. Note: LP (Liquefied Petroleum Gas) / CO MiniMerlin models are also available.

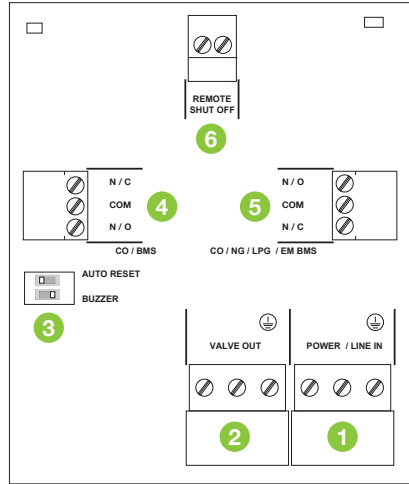
The MiniMerlin is a compact sensor that will signal an audible and visual alarm if either gas is detected at an actionable concentration. If used in conjunction with an AGS solenoid valve, the MiniMerlin can also shut off the supply of gas to the building or appliance.



CONCENTRATION	SYMPTOMS
35 ppm (0.0035%)	Headache and dizziness within six to eight hours of constant exposure
100 ppm (0.01%)	Slight headache in two to three hours
200 ppm (0.02%)	Slight headache within two to three hours; loss of judgment
400 ppm (0.04%)	Frontal headache within one to two hours
800 ppm (0.08%)	Dizziness, nausea and convulsions within 45 min; insensible within 2 hours
1600 ppm (0.16%)	Headache, tachycardia, dizziness and nausea within 20minutes; death in less than 2 hours
3200 ppm (0.32%)	Headache, dizziness and nausea in five to ten minutes. Death within 30 minutes
6400 ppm (0.64%)	Headache and dizziness in one to two minutes. Convulsions, respiratory arrest and death in less than 20 minutes
12800 ppm (1.28%)	Unconsciousness after 2-3 breaths. Death in less than three minutes

AGS MINI MERLIN WIRING DIAGRAM

1. POWER/LINE IN – Mains electrical power input. 110-120v AC
2. VALVE OUT – Gas solenoid valve power output. 110-120v AC
3. AUTO RESET & BUZZER SWITCH
4. CO BMS – This will switch when CO reaches the alarm level.
5. CO / NG / LPG EM BMS – This will switch when either gas reaches the alarm level or a remote emergency shut off is activated
6. REMOTE SHUT OFF – Closed circuit during normal operation, this input shuts off the gas valve & CO/NG/LPG relay in the event of external devices being triggered.



AGS MINI MERLIN BENIFITS

- Compact Design
- Commercial Grade Sensors
- Clear Visual Display
- Adaptable Outputs
- Shut off an Appliance
 - Gas Valve
 - Electrical Circuit
- Alarm Condition Held for First Responders
- End of Life Alarm
- Accepts Inputs from
 - Panic Buttons
 - Fire Alarm
 - Smoke Detectors
- Interconnect multiple units

Digital Display

Showing CO & NG Levels



Touch Button
Power Up/ Test/ Reset

GAS LEVEL INDICATOR



Green

Levels are safe.



Yellow

Levels are at low level alarm.
Attention required.



Red

Levels are dangerously high.
Urgent attention is required.

FOR MORE INFORMATION ON THIS & OTHER GAS SAFETY SYSTEMS PLEASE:

CALL US ON: (727) 608-4375 or email: info@americangassafety.com
Maintenance literature available online at www.americangassafety.com