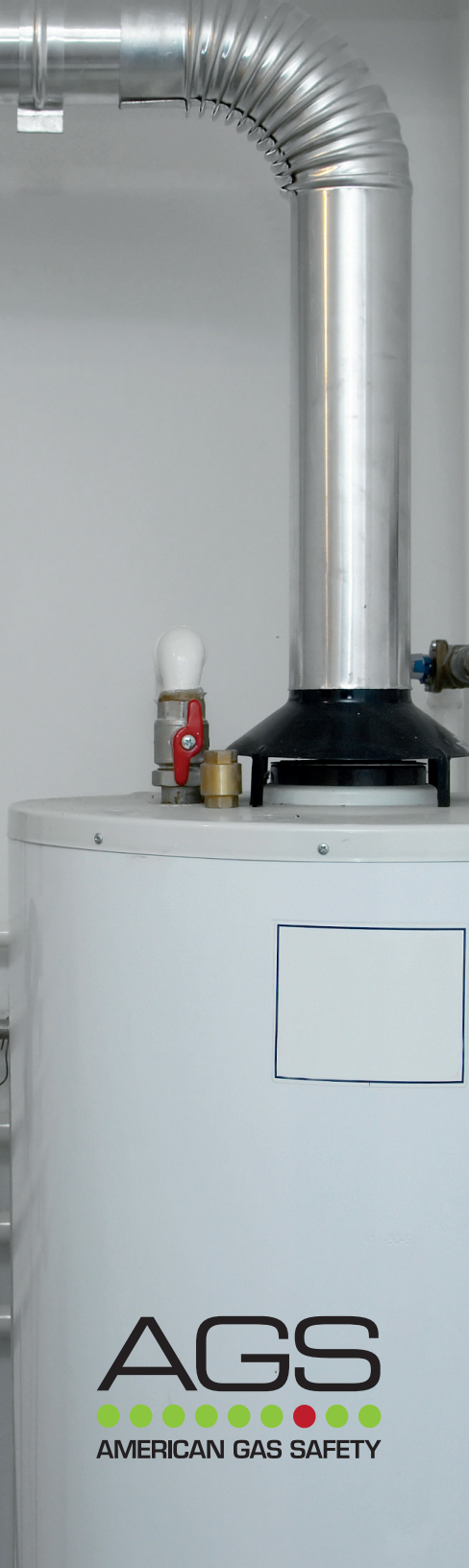


Dual protection

CO & EXPLOSIVE GAS ALARM & ISOLATION

GAS DETECTION
EQUIPMENT
ENGINEERED TO
DELIVER EXCEPTIONAL
LEVELS OF SAFETY

c  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.

THE MINI MERLIN



After only 5 minutes of exposure to low levels of Carbon Monoxide people will begin to feel noticeable symptoms. Prolonged exposure can lead to serious complications and even death.

The Mini Merlin, upon detection of Carbon Monoxide or Natural Gas will signal an audible alarm and display the levels via a digital screen warning residents of danger. The clear graphics also provides traffic light indication giving you a visual display of the gas levels increasing.

Once CO or Nat gas is detected the mini merlin will signal a Water heater, boiler or a gas solenoid to shutdown and isolate the imminent danger.

Once the area has been ventilated the Mini Merlin will continue to display the levels of the alarm for the qualified technician or first responder to identify the problem. Once the area is deemed safe the Mini Merlin can be reset via a push button located on the front fascia.

Our commercial grade detectors have a life span of 5 years, once powered up the internal timer will begin. After the 5 year period the Mini Merlin will display END OF LIFE, warning the occupant the detector needs replacing.

The unit measures 3.7"(W)x5.5"(H)x2.4"(D) and is housed in a modern, wall mounted enclosure.



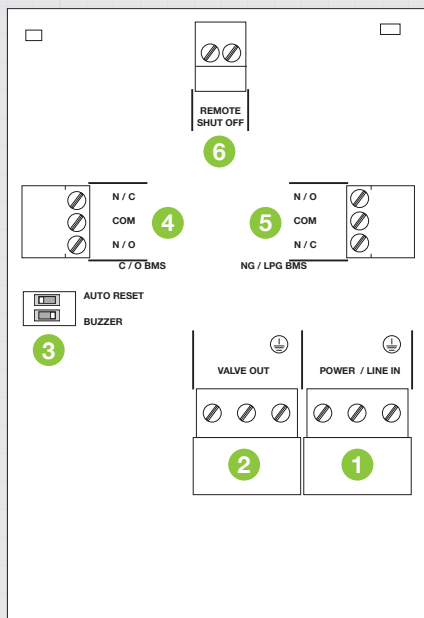
DOMESTIC



COMMERCIAL

CONCENTRA-TION	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

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 – See table below.
4. CO BMS – This will switch when CO reaches the alarm level.
5. NG/ LPG BMS – This will switch when CH4 reaches the alarm level.
6. REMOTE SHUT OFF – Closed out as a factory setting and during normal operation, this input shuts off the gas valve relay in the event of external detectors being triggered.

BOX DIMENSIONS: H 5.50 INCH (140MM) X W 3.74 INCH (95MM) X D 1.18 INCH

SWITCH OPTIONS



OFF



ON

Auto reset switch

DEFAULT

When the power is restored after a power loss, the unit must be restored manually

This will instruct the unit to restart automatically when power is restored

Buzzer Switch

The audible alarm will not sound at any level but the digital display gas level indicators will remain active

DEFAULT

The alarm will sound every 15 seconds during pre-alarm gas levels and continuously when gas levels are high

AGS MINI MERLIN WIRING DIAGRAM

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