



CGS CH4CO Mini Merlin

Combined Natural Gas &
Carbon Monoxide Monitor

Protect Life & Building



ULC Listed

ULC 61010 listed controller
ULC 2075 sensor conformity



Easy To Use

Clear TFT screen displays
status indication & live gas
detector values



Automatic Emergency Shutdown

Gas supply shutdown in
alarm i.e. gas detected,
emergency panic & fire
alarm activation



BMS & Fire Panel Connectivity

Outputs available to BMS
systems via the controllers dry
contacts



Modern Design

Slim robust enclosure with
touch sensitive buttons



Boiler Interlock

Boiler shutdown in alarm i.e.
gas detected, emergency panic
& fire alarm activation



Plug & Play

Clearly labeled PCB for
easy installation



Manual Reset

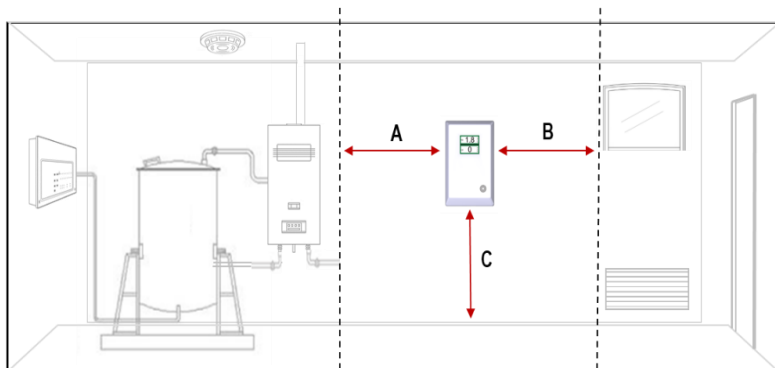
Touch button for manual reset
after an alarm state or upon
start-up

Typical Location and Positioning

Consider the coverage required and function of the area. Emphasis should be placed on airflow patterns and correct placement, not perceived detecting ranges. The target gas will only be identified when contact is made with the sensing element itself.

Multiple detectors may be required to adequately protect property and persons.

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

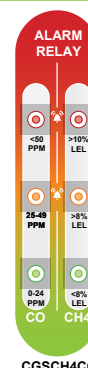


- A. 6ft / 1.8m from sources of combustion e.g. boiler s/ heaters / gas fired appliances etc.
- B. 4ft / 1.2m from draft zones and ventilation areas e.g. windows, doorways and A/C units etc.
- C. 5ft / 1.5m from ground level.

ALARM
Continuous Visual & Audible
Alarm. Automatic Shutdown
of Connected Gas Solenoid
Valve and/or Boiler(s)

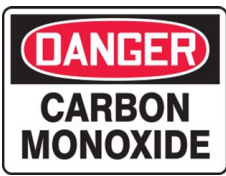
PRE ALARM
Sunder Alarm Every
15 Seconds

GOOD
Gas Concentration at
a Safe Level



CGSCH4CO

**COMPACT,
ROBUST &
AFFORDABLE**



Danger - Carbon Monoxide

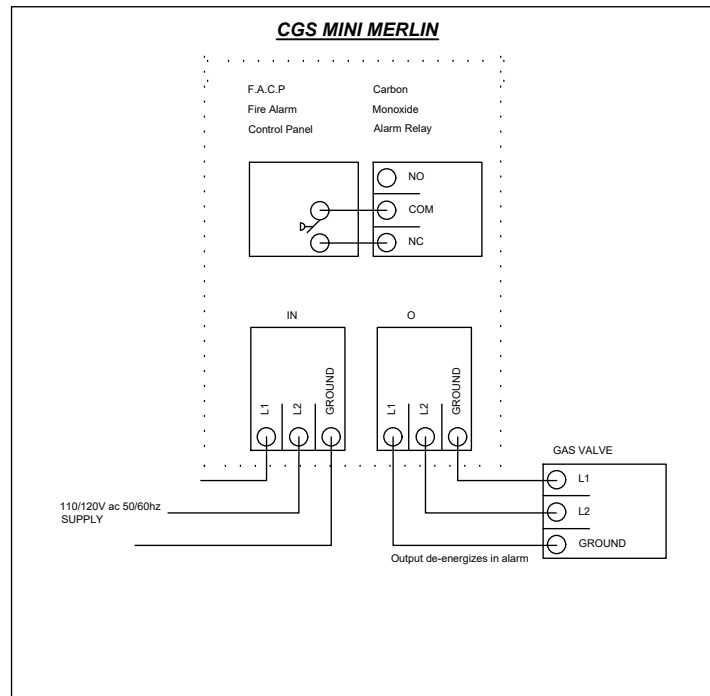
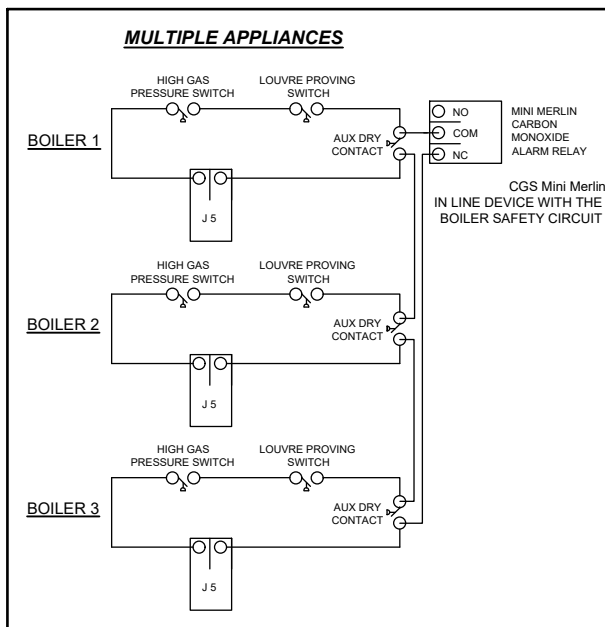
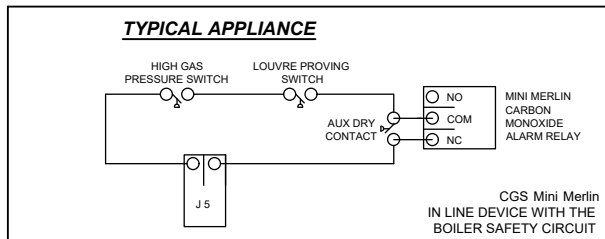
Carbon Monoxide only comes from the incomplete combustion of fuels. A combustion process that is not receiving enough oxygen or where there is a defect in the gas train, incomplete combustion will occur.

Water heaters and boilers create CO as part of their regular operation, this CO is exhausted through the flue system to the outside. If flues are installed incorrectly, damaged, blocked or experiences back-draft the flue gases can leak back into the area. Re-burn is another process that multiplies the amount of CO being produced. Re-burn is when the combustion process consumes most of the available oxygen in the space and then starts to utilize the available carbon dioxide. If you do have a CO problem and do not shut down the combustion process it is only going to build up and get worse.

Carbon monoxide is a dangerous gas, it attacks the hemoglobin in the blood and inhibits its ability to transport oxygen to the vital organs: the nervous system, the brain, the heart, and lungs. Carbon monoxide is invisible to the naked eye, we can't smell it and we can't even tell we are breathing it in. Carbon monoxide leaks left unchecked can be fatal. The CDC estimates **10,000 people in the U.S & Canada are poisoned by carbon monoxide** needing medical treatment each year and more than **438 people die annually from carbon monoxide poisoning**.

By creating an interlock with the carbon monoxide detector and the combustion process, the dangerous levels of CO will not only sound an alarm but will also shut down the combustion process. Warning of a dangerous condition and stopping it from getting worse.

Wiring Examples



Find out more

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**SIMPLE,
EFFICIENT &
RELIABLE**