

# AGS

AMERICAN GAS SAFETY

## AGS MINI MERLIN

# 30+ YEARS OF EXPERIENCE

### PROTECT LIFE & BUILDING

### COMBINED NATURAL GAS & CARBON MONOXIDE MONITOR



**AGSCH4CO**  
(Methane & CO)

**AGSLPGCO**  
(LPG & CO)



#### Automatic Emergency Shutdown

Boiler and/or gas supply shutdown in alarm i.e. gas detected, emergency panic & fire alarm activation



**Modern Design**  
Slim robust enclosure with touch sensitive button



#### Manual Reset

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



**BMS & Fire Panel Connectivity** Outputs available to BMS systems via the controllers dry contacts



#### Plug & Play

Pre-programmed inputs & outputs for fast and easy installation



#### UL Listed

UL 61010 Listed Controlled  
UL 2075 Sensor



#### Meets Code Requirements

Carbon monoxide interlock code in Texas, Florida & Georgia



#### Easy To Use

Clear TFT screen displays status indications & live gas detector values

## ALARM LEVEL THRESHOLDS

### AGSCH4CO-35

GOOD  
PRE ALARM  
ALARM

CO: 0-19ppm / NG: <8% LEL  
CO: 25-34ppm / NG: >8% LEL  
CO: >35ppm / NG: <10% LEL

### AGSCH4CO-50

GOOD  
PRE ALARM  
ALARM

CO: 0-19ppm / NG: <8% LEL  
CO: 25-49ppm / NG: >8% LEL  
CO: >50ppm / NG: <10% LEL

### AGSCH4CO-TWA

GOOD  
PRE ALARM  
ALARM

CO: 0-34ppm / NG: >8% LEL  
CO: 34-49ppm / NG: >8% LEL  
CO: 25ppm @ 2 hours / NG: <10% LEL  
50ppm @ 1 hour  
100ppm @ 10 minutes  
300ppm @ 1 minute

## AUTOMATIC SHUTDOWN

The Mini Merlin is designed to shut off the source of a carbon monoxide or combustible gas leak via gas valve shut down, boiler safety circuits, or an electrical contactor.



FIND OUT MORE

info@americangassafety.com  
(727)-608-4375

### PROVIDING SAFETY & CONTROLS IN

- SCIENCE LABORATORIES • BOILER ROOMS • GAS FEATURES
- COMMERCIAL KITCHENS • PARKING GARAGES • EMS STATIONS



## INPUTS & OUTPUTS



### Inputs

Inputs from various devices will initiate an alarm condition, which will shut down connected devices

### AGS Mini Merlin

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

### Outputs

Various built-in outputs allow the Mini Merlin to shut down devices

## CARBON MONOXIDE INTERLOCK CODES

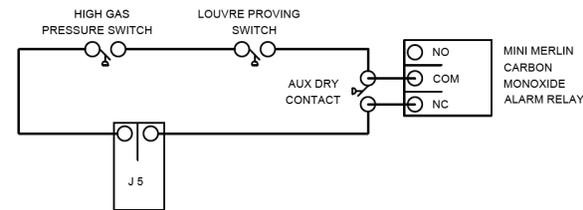
In Texas, Florida & Georgia, a carbon monoxide detector is required with all new & refurbished boiler(s) installations to automatically shutdown the boiler(s) in the event of high CO levels. See below a summary of the existing codes. For more information on the specific code requirements, please refer to: <https://americangassafety.com/mini-merlin-range/>



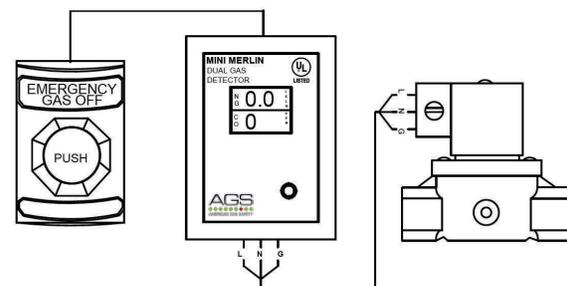
- Meets the 2022 Florida Statutes - Chapter 509.211 Safety Regulations
- Required in every public enclosed space or room that contains a boiler over 200,000 BTU's, regulated under chapter 554.
- CO detector must prevent boiler from operation if the levels exceed 35ppm, and must have a manual reset.
- Emergency boiler panic button required per exit, located outside the room or just inside the door if is an external door.
- Meets the TDLR Code - Section 65.206 Boiler Room
- Required in every boiler room with new or re-installations of one of more boilers, completed after September 1, 2020.
- CO detector must prevent boiler from operation if the levels exceed 50ppm, and must have a manual reset.
- The carbon monoxide detector shall disable the burners upon loss of power to the detector.
- Meets the 2022 Rules & Regulations of the State of Georgia - Rule 120-3-26-.07
- Required in every boiler room containing one or more boiler/heater/ pressure vessel which CO can be produced.
- CO detector must alarm at 50ppm and prevent boiler from operation if the levels exceed 200ppm.
- The carbon monoxide detector shall disable the burners upon loss of power to the detector.

## BOILER SAFETY CIRCUIT

Use the dry contact relays to connect directly the Mini Merlin directly to the boilers safety circuit, and shut down the carbon monoxide source directly.



## GAS VALVE SHUT DOWN



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