

# Kitchen Interlock Submittal Sheet 2018



Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

Project Engineer: \_\_\_\_\_

AGS Project Number or Quote Number: \_\_\_\_\_

Kitchen# / Area #: \_\_\_\_\_

No. of Units for this Sheet: \_\_\_\_\_



The Merlin range of commercial kitchen interlocks have the capabilities to be used as a CO interlock, a fan proving interlock or as an authority control panel. Each panel comes with built in connectivity to meet most project specific requirements. Use this check sheet to select the type of interlock, accessories and intended sequence of operation. Additional information can be found at [www.americangassafety.com](http://www.americangassafety.com)

## Interlock Panel

Check each appropriate option

CO Interlock (Carbon Monoxide)  Fan Interlock  Fan Interlock via Air Diff Switch (AGSADS)  or PM2

## Mounting:

Surface Mounted  Flush Mounted (add AGSFMK Flush Mount Kit)

Merlin Panel Controls Singular Valve  Merlin Panel Controls Multiple Valves  Number of Valves

Number of Hoods Associated with Merlin Panel

## Gas Detection:

AGS supply Natural Gas, CO (Carbon Monoxide) detectors for the commercial kitchen interlocks. Each Merlin panel can utilize any combination of these detectors to a maximum # of 3. When using just one type of detector the number of allowable units is governed by their power consumption and is listed below.

### Number of Detectors:

CO Carbon Monoxide  MAX number of CO detectors is 6

Natural Gas Methane  MAX number of Natural Gas detectors is 3

LPG Liquid Petroleum Gas  MAX number of LPG detectors is 3

## Connectivity:

Advisory F.A.C.P. Output—Dry Contact N/O or N/C—Change state on Gas Detected  OR Gas On/Gas Off

F.A.C.P Interrupt (Fire Alarm Shuts Down Panel via Remote Emergency Stop Circuit)

Gas Safety Systems

Utility Control

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## Solenoid Valves

AGS supplies Normally closed 110-120vac 0-2PSI Gas Solenoid suitable for Natural Gas (Methane) or LPG as standard. All AGS Solenoids are UL listed and considered Safety Shut-Off valves due to their fast closing.

| AGS Part Number | Size NPT | Qty | Min – Max Pressures | Normally Closed | 110-120vac | Special requirements |
|-----------------|----------|-----|---------------------|-----------------|------------|----------------------|
| MERLIN1023      | 3/4"     |     | 0-2PSI              | *               | *          |                      |
| MERLIN1031      | 1"       |     | 0-2PSI              | *               | *          |                      |
| MERLIN1049      | 1+1/4"   |     | 0-2PSI              | *               | *          |                      |
| MERLIN1056      | 1+1/2"   |     | 0-2PSI              | *               | *          |                      |
| MERLIN1064      | 2"       |     | 0-2PSI              | *               | *          |                      |
| MERLIN1072      | 2+1/2"   |     | 0-2PSI              | *               | *          |                      |
| MERLIN1080      | 3"       |     | 0-2PSI              | *               | *          |                      |

\*Other sizes and pressures available upon request.

## Remote Emergency Panic Buttons:

AGS remote panic buttons are wired in a dry contact series, there is no limit to the number of buttons which can be wired back to the Merlin panel.

AGSEPOTW—Twist Release Red Mushroom - Clear Cover - Flush Mount   
 AGSEPOTWWM - Twist Release Red Mushroom - Clear Cover - Wall Mount / Exposed Conduit   
 Qty per Merlin 1500 Panel

## CO2 MODE: AGS CO2 NDIR (Non Dispersive Infra-Red) Monitor AGSCO2120C

Line Voltage standalone CO2 monitor with Non-Dispersive Infra-red Detector with two relay outputs, 0-10v output and High Temperature Alarm  
 Pre Alarm >2800ppm Full Alarm >4800ppm Qty Per Room  Qty Per Hood

## Gas proving settings (when using Pressure transducer)

Pressure Fill Time: 5 Secs  (up to 50ft Gas Train) 10Secs  (>50ft Gas Train)  
 Pressure Drop Test Time: 30 Secs  (Factory Set Standard Test) 60Secs  (More Sensitive Test)

Additional Notes or Accessories: \_\_\_\_\_

## Material List:

- Merlin CT1500S - Control Unit
- AGSADS - Air Differential Switch
- PM2 - Fan Speed Current Monitor
- MERLIN \*\*\*\* -Gas Valve (size determined)
- AGSEPOTW– Remote Panic Button Flush Mounted
- AGSEPOTWWM - Remote Panic Button Wall Mounted/Exposed Conduit
- AGSCOXS - Carbon Monoxide Detector

**Gas Safety Systems**

**Utility Control**