

Kitchen Interlock Submittal Sheet



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

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 3

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

American Gas Safety, LLC. 4500 140th Ave N. Suite 101. Clearwater, FL 33672 T.(727) 608-4375 F.(727) 538-4237 www.americangassafety.com

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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 ☐

Quantity Required Per Merlin 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 >4500ppm 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

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