

Project Name: _____
 Project Address: _____
 Project Engineer: _____
 AGS Project Number or Quote Number: _____
 Kitchen # / Area # _____
 No. of Units for this Sheet _____



The Merlin ranger 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

Merlin CT1500S Kitchen Interlock Panel

Check each appropriate option

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

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, LPG and 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

Nat Gas Methane MAX number of Nat 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 Shuts Down Gas Supply upon Fire Alarm

	AGS Head Office	
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Kitchen Interlock version 4.1

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	Oty	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 Temp Alarm
 Pre Alarm >2800ppm Full Alarm >4800ppm Qty Per Room Qty Per Hood

Additional Notes or Accessories:

Materials 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
- AGSCO2120C - 4500ppm CO2 Monitor

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