

## GAS SAFETY DEVICES

# CATERGUARD

## Gas Safety Devices & Accessories

Gas Interlocks (GIS units) are required in most commercial kitchens, these systems require a number of components to comply with UK legislation.

**GIS UNITS  
WITH INTEGRAL  
COMPONENTS ARE  
SUPPLIED AS ONE  
COMPACT UNIT TO  
SAVE INSTALLATION  
TIME**

CaterGuard™ “Advanced” M-G06R Gas Interlocks save time on installations and can reduce the amount of accessories you need to purchase.

Helpful, simple operation instructions are provided on the fascia of the unit.

Choose from a variety of models to find the model best for your application.

Solenoids, gas proving systems, fan power sensors and other accessories are also part of the range.



### Dedicated Helpline

Dedicated technical helpline service. Helpful, simple operation instructions provided on the fascia of the unit.

### Full Range of Accessories

Solenoids, gas proving systems, fan power sensors and other accessories are also part of the range.

### CaterGuard “Advanced” Gas Interlocks

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WATER



GAS



ENVIRONMENT



PEST  
CONTROL

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## GIS UNITS WITH INTEGRAL COMPONENTS

One compact unit saves time on installation

- Built-In Emergency Cut-Off Switch
- Built-In Fan Power Sensors

### FEATURES

Single box, including:

- 2x on/off fans
- Gas Interlock Panel
- Emergency cut-off switch
- Audible alarm for when gas has been shut off

Complete and simple instructions on the fascia

All pre-wired internally

Audible alarm

Built in emergency stop feature button

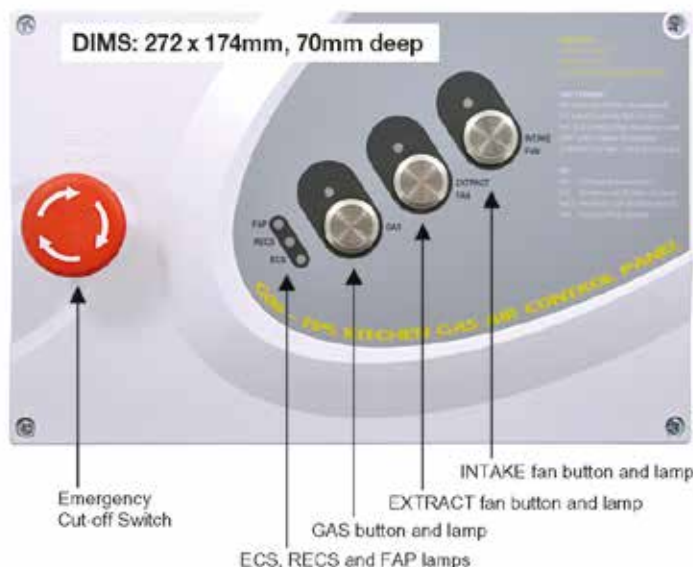
Connections for optional Remote Emergency Stop and Fire alarm panel

Anti-back pressure feature (ignores back draughts in ducting - avoiding accidental shut offs)

Finished with LED lamps and high quality components

Made in the UK, CE marked

Guaranteed against manufacturing defects for 12 months (parts only)



### BENEFITS

Easy to install & operate

A more financially competitive solution than buying separate components

Save installation time as - no need to wire individual components

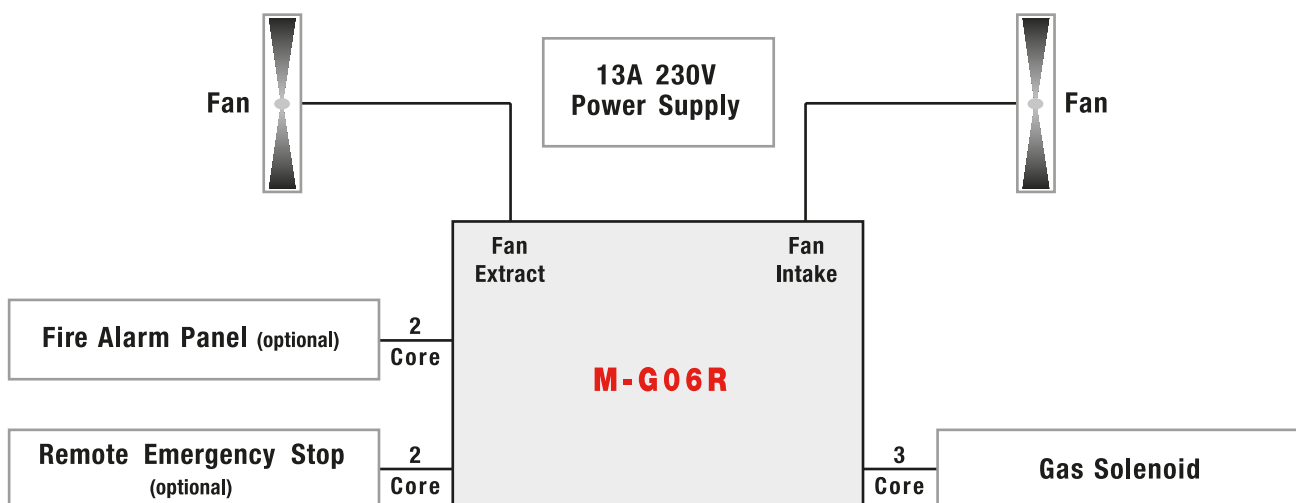
Flexible - can operate one or two fans

Modern, compact design compatible with new kitchen designs

Technical helpline service

Simple for end-users to operate - one button

Multiple GIS solutions can be wired together to operate more than two cooking suites/islands.





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- Market-leading Gas Interlock System family
- Mechline's CaterGuard GIS units cut off gas flow in the event of kitchen extraction fan failure
- Mandatory requirement in most commercial kitchens
- Manufactured in the UK

### THE PURPOSE OF A GIS

By monitoring airflow or fan motor running current, proper functioning of a kitchen's extraction system can be determined by the GIS, allowing gas to then be supplied to installed appliances. Monitoring is effected by air pressure differential sensors mounted in the extraction and/or air supply ductwork or via fan power sensors looking at fan motor current. In the event of fan failure or a significant air flow reduction (as calibrated by the installation engineer), the sensors will actuate the Mechline GIS which in turn closes the gas supply solenoid and thus cuts off gas supply to the kitchen appliances.

### WHEN IS A GAS INTERLOCK SYSTEM A MANDATORY REQUIREMENT?

Gas safety interlock systems are required in all commercial kitchens. Gas Safe regulations and BS6173 both require a gas interlock system to be fitted. This ensures that the commercial kitchen ventilation system is working before the gas is turned on. This prevents a build-up of potentially poisonous gas combustion fumes in the kitchen which would be harmful to the health of kitchen staff and others within the premises. If any gas appliances do not have Flame Failure Devices (FFD's) fitted, then a gas proving system must also be fitted to comply with regulations.

#### When to fit a GIS?

- On installation of a completely new extraction/ventilation canopy
- On installation of a completely new gas pipework run
- On installation of a completely new cook line or layout

With any fitting of Category 'B' equipment, e.g. combination/convection ovens, deep fryers [with powered flues], grills, charcoal griddles etc. proving system must also be fitted to comply with regulations.

### ADVANTAGES OF MECHLINE'S CATERGUARD GIS

#### Smart and Compact design -

Complies with new CAIS 23 [revised]

#### Easy to Install

- Clear and simple instructions with diagrams
- Larger enclosure allows for easy installation
- Neat & compact and easy access for wiring

#### Easy to Operate

- One button operation - all features explained fully on the fascia plate. Clear indicators
- LED lamps & high-quality components

#### Key Safety Features

- All models have an anti-back pressure feature – ignores brief back draughts in the duct and allows gas to flow.
- Back pressure sensitive with 10-second activation
- Option of 'fail safe' double sensor warning model [M-GO3] provides the operator with 'peace of mind' and a means of avoiding system actuation through a faulty or failed sensor. Provides clear warning that a single sensor has failed. The system only shuts off the gas supply when both sets of sensors actuate. (Please note in this instance that four sensors are required).
- Option of built-in emergency stop is available on units with model numbers ending in 'R'
- Compliant with BS6173(2009) and Regulation 27(4) of the Gas Safety (Installation and Use) Regulations 1998
- Each GIS can handle one or two fans
- Multiple GIS units can be wired together to operate more than two fans - Single or Double Sensor warning available
- Easy to clean and protected to IP54
- Technical help is at hand from Mechline or from an independent Technical Adviser on 01324 829922



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### GAS INTERLOCK SYSTEMS

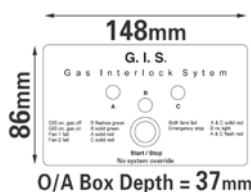
#### SYSTEM REQUIREMENTS

- GIS Unit – choose from M-G01N, M-G02R, M-G03R or M-G06R
- Remote or Built-in Emergency Shut-Off Switch - or both
- Air Differential Switch or Fan Power Sensor - unless already built-in
- Electrically operated, normally closed gas safety shut-off Solenoid Valve

It is the  
Customer's  
responsibility to  
determine the  
suitability of the  
GIS system for the  
application



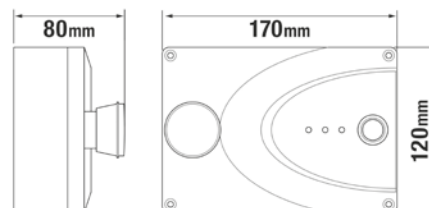
M-G01N



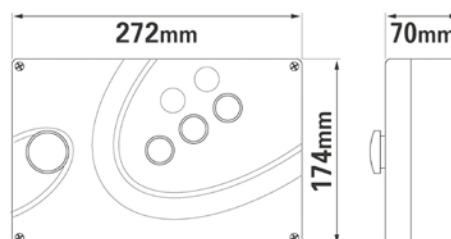
M-G02R



M-G03R



M-G06R



Model	Description
M-G01N	GIS with NO override (stainless steel panel)
M-G02R	GIS system with interlock panel and built-in Emergency Knock-Off Switch

Model	Description
M-G03R*	With a built-in Emergency Knock-Off Switch (requires 4 sensors, sold separately)
*IMPORTANT NOTE: The M-G03R model will need 4 sensors to operate correctly on two fan systems. Choose between M-ADS20 or M-FPS sensors - sold separately. If you have any questions, please contact Mechline's Technical Department or contact 01324 829922, an independent Technical Help Line for Mechline's GIS units.	
M-G06R	Advanced GIS system includes Interlock panel, Emergency Knock-Off Switch & Fan Power Sensors (no fan speed controllers)

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### ACCESSORIES

Model	Description
<b>GIS Sensors &amp; Accessories</b>	
<b>M-ADS20</b>	20-200 Air Pressure Differential Switch
<b>M-ADSEXT</b>	Extension Kit inc. 2m additional piping and 2 connectors
<b>M-FPS-X</b>	Fan Power Sensor (FPS) for fans 100W to 3000W
<b>M-RECS</b>	Remote Emergency Cut-Off Switch
<b>M-FRECS</b>	Flat Remote Emergency Cut-Off Switch

Model	Description
<b>Gas Solenoid Valves (normally closed-230V)</b> <i>NB: Not applicable to GPS Units</i>	
<b>M-VE050</b>	1/2-inch
<b>M-VE075</b>	3/4-inch
<b>M-VE100</b>	1-inch
<b>M-VE125</b>	1 1/4-inch
<b>M-VE150</b>	1 1/2-inch
<b>M-VE200</b>	2-inch
<b>M-VE250</b>	2 1/2-inch
<b>M-VE300</b>	3-inch

Model	Description
<b>GPS – Gas Proving System (includes Gas Solenoid Valve &amp; Control Devices)</b>	
<i>NB: Must be installed to an existing, or supplied with a new GIS system. IMPORTANT: Please identify, when ordering a GPS, the gas flow direction.</i>	
<b>M-VEGP075</b>	3/4-inch
<b>M-VEGP100</b>	1-inch
<b>M-VEGP125</b>	1 1/4-inch
<b>M-VEGP150</b>	1 1/2-inch
<b>M-VEGP200</b>	2-inch

### GIS MODEL FEATURE GUIDE

MODEL	FEATURES								
Gas Interlock Panel	Operates 2 Fans	Built-in Emergency Stop	Built-in Fan (On & Off)	Built-in Fan Current or Power Sensors	Connections for ADS & FPS units	Connections to Remote Emergency Stop	Connections to Fire Alarm Panel	Anti-Back Pressure Feature	Audible Alarm
<b>M-G01N</b>	✓				✓	✓		✓	
<b>M-G02R</b>	✓	✓			✓	✓		✓	
<b>M-G03R</b>	✓	✓			✓	✓		✓	
<b>M-G06R</b>	✓	✓	✓	✓	Integral to unit	✓	✓	✓	✓

### IMPORTANT INFORMATION

The Mechline GIS module is one key component in a safety system, interfaced with a number of other control mechanisms. The Gas Interlock System will ensure safety in the event of a failure of any of these other interconnected elements and a shutdown of the gas supply to the kitchen may result, requiring immediate engineer attendance. To minimise disruption to kitchen operations, it is highly recommended that you have or provide your client with an emergency contact number for your service/installation engineer. Alternatively, advise your client in advance of other back-up procedures in the event of product activation or operational difficulties. If on-site emergency call-out cover is required, it is not the responsibility of Mechline Developments Ltd. to provide this.

The warranty on the Mechline GIS is for 12 months from the date of invoice. The warranty is for parts only, against manufacturing defect or workmanship. No inclusion is made for labour or site attendance, and no such warranty is offered or implied. Mechline Developments Ltd accepts no responsibility for consequential loss caused or suffered as a result of the lack of provision of on-site emergency cover.

**It is the customer's responsibility to determine the suitability of the GIS system for the application.**

**For Mechline's Standard Warranty and Returns Policy - see the back of this catalogue.**

**Important documents / notes for your consideration and reference:**

- TB 123 Gas Safe Register
- Gas Safety (Installation and Use) Regulations 1998 GSIUR 27/4 - ACOP L56 Rev 14 08/13
- HSE CAIS 23 (Revision 2, 07/13. Gas Safety in Catering & Hospitality)
- HSE CAIS 10 (Revision 2, 07/12. Ventilation in Catering Kitchens)
- HVCA Guidance - DW 172 Standard for Kitchen Ventilation Systems
- IGEM/UP/19 Design and application of interlock devices

**Visit [www.mechline.com](http://www.mechline.com) for more information.**