

Distributed BY

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Gas Safety Devices

including, GIS “Advanced” models



- **Gas Interlocks (GIS units)** are mandatory for most commercial kitchens and require a number of components, but using our **“advanced”** units can reduce the amount of accessories you need to purchase.
- **CaterGuard “Advanced”** Gas Interlocks save time on installations.
- Each unit comes with a **dedicated telephone helpline and simple instructions** on the fascia to help with installation.
- **Choose from a variety of models to find the model best for your application** - Use the chart in this section, 7CG, p.3.
- **Solenoids, gas proving systems, fan power sensors and other accessories** are also part of the range.

MECHLINE

To see more products from Mechline, visit www.mechline.com

“Advanced” models - M-G04R, M-G05R & M-G06R

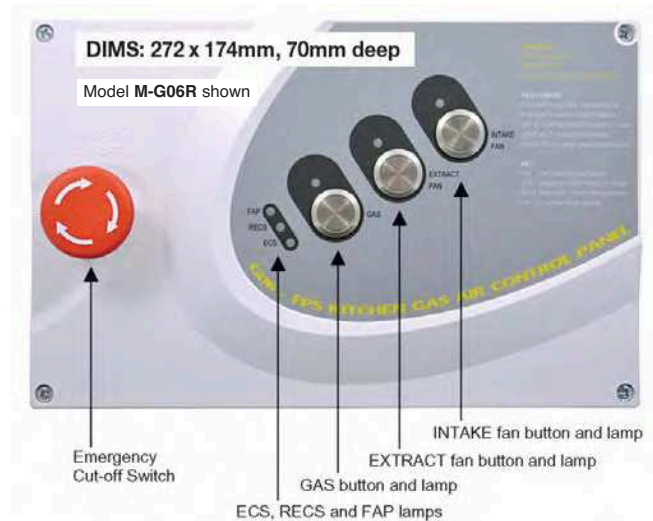
GIS Units with Integral Components

One Compact Unit / Save time on Installations!

- **Built-In Fan Speed Controllers** (except M-G06R)
- **Built-In Emergency Cut-Off Switch**
- **Built-In Fan Power Sensors** (except M-G04R)

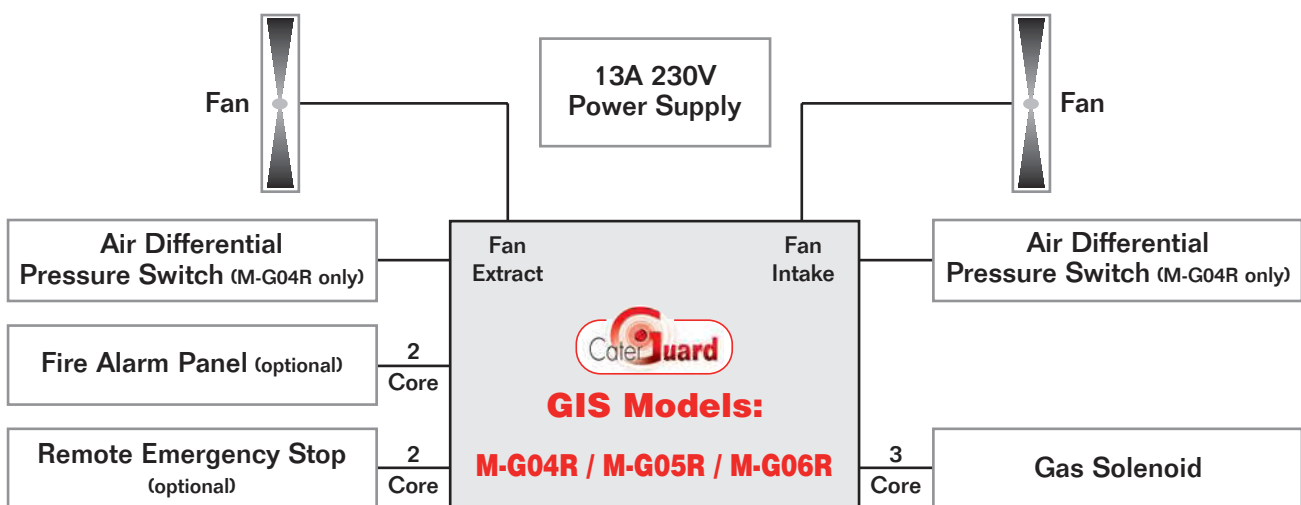
KEY POINTS

- **Single box, including:**
 - 2x On/Off Fans
 - Models* with and without Fan Speed Controllers
 - Gas Interlock Panel
 - Emergency Cut-Off Switch
 - Audible Alarm *for when gas has been shut off*
- * **M-G04R** - requires the connection of either two Fan Power Sensors or Air Pressure Differential Switches - *sold separately*
- * **M-G05R** - includes two Fan Power Sensors + Fan Speed Controllers - *no need for further components*
- * **M-G06R** - similar to M-G05R but no Fan Speed Controllers
- Each model is a more competitive solution than buying separate components - **saves money**
- No need to wire individual components - **saves time**
- Each model can operate one or two fans
- Modern design & most compact product on the market
- Dedicated telephone **Help Line** service

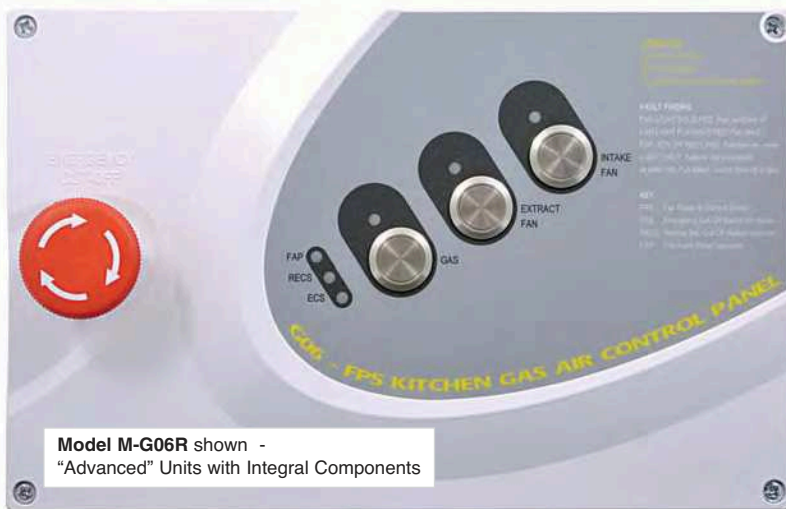


FEATURES

- **Easy to install & operate**
- 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)
- Fan “soft-start” feature
- Made in the UK and CE marked
- **Guaranteed** against manufacturing defects for one year (*parts only*)



CaterGuard GIS - Product Information



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

IMPORTANT DOCUMENTS/TRADE REFERENCES:

[BS 6173; Corgi Technical Bulletin TB 13; Gas Safety Regulations 27 [4]; HSE – Revised Catering Information sheet No 23 - Gas Safety in Catering and Hospitality; HVCA DW 172.]

WHAT GIS UNITS DO

The 230V GIS monitors either Air Pressure Differential Sensors mounted in the extraction and air supply ductwork and/or Fan Power Sensors. In the event of fan failure or significant air flow reduction [as calibrated by installation engineer], the sensors will actuate the **Mechline GIS**, which in turn closes the gas solenoid and cuts off the gas supply to the kitchen appliances.

WHEN IS A GAS INTERLOCK SYSTEM A MANDATORY REQUIREMENT?

- 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], etc.

ADVANTAGES OF MECHLINE'S CATERGUARD GIS

Smart and Compact design - Complies with new CIS 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

Market-Leading Features

- Anti 'Back Pressure' feature on all models - "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. Four sensors are required.**
- Option of 'Built-In' Emergency Stop is available on units with model numbers ending in 'R'
- Comply with BS6173(2001) 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 available at **Mechline** or from an independent **Technical Adviser on: 01324 829922**

Dimensions shown in mm unless otherwise stated. Information and numerical data has been prepared as a general guide to the products but intending buyers & users must satisfy themselves as to the suitability and safety of the products for their particular purposes & duties. No responsibilities are assumed for errors herein. The company reserves the right to alter designs and specifications of the products without notice. NB: Product accreditation may not apply to all products in the relevant range. Please contact Mechline to confirm.

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CaterGuard GIS - Product Information cont...

SYSTEM REQUIREMENTS

- GIS Unit – choose from M-G01N, M-G02/R, M-G03/R, M-G04R, M-G05R 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.

GIS MODELS IN THE RANGE

M-G01N - Compact GIS with stainless steel fascia

M-G02 or M-G02R* - "Standard" GIS with moulded fascia
M-G03 or M-G03R* - "Fail Safe" model requiring 4 sensors (*sold separately*)
***R** indicates built-in Emergency Stop button

"Advanced" GIS Units
M-G04R - just add 2x M-FPS or M-ADS units
M-G05R - includes 2x Fan Power Sensors
M-G06R - similar to M-G05R but no Fan Speed Controllers

GIS Sensors & Accessories

- M-FPS-55** Fan power/current sensor for fans 0.2A to 2.2A
- M-FPS-330** Fan power/current sensor for fans 1.3A to 13A
- M-ADS20** Air Differential Pressure Switch
- M-RECS** Remote Emergency Cut-Off Switch
- M-FRECS** Flat Remote Emergency Cut-Off Switch
- M-ADS EXT** 2 metre extension kit for ADS

Honeywell Gas Solenoids (Natural/LPG) - 230V, normally closed - *not applicable to GPS Units*

- M-VE050** 1/2-in **M-VE075** 3/4-in **M-VE100** 1-in **M-VE125** 1 1/4-in **M-VE150** 1 1/2-in
- M-VE200** 2-in **M-VE250** 2 1/2-in **M-VE300** 3-in **M-VE400** 4-in

Gas Proving Systems (GPS) - Available from 3/4-inch to 3-inches *NB: GPS units have their own solenoids*

GIS MODEL FEATURE GUIDE

Model	Features										
Gas Interlock Panel	Operates 2 Fans	Built-in Emergency Stop	Built-in Fan (On & Off)	Built-in Fan Speed Controllers	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	Fan Soft Start
M-G01N	X					X	X		X		
M-G02	X					X	X		X		
M-G02R	X	X				X	X		X		
M-G03	X					X	X		X		
M-G03R	X	X				X	X		X		
M-G04R	X	X	X	X		X	X	X	X	X	X
M-G05R	X	X	X	X	X	Integral to unit	X	X	X	X	X
M-G06R	X	X	X		X	Integral to unit	X	X	X	X	X

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CaterGuard GIS - Product Information

Gas Interlock System & Accessories

Attendance / Warranty & Returns Policy - Reference criteria

At **Mechline**, we pride ourselves on the quality of our products. With the benefit of many years experience we recognise that the catering equipment industry requires high-quality, durable products at the best possible value. In order to deliver this to you, we invest heavily in research and development, quality control and in individual product testing prior to despatch.

This policy prevents defective products from being despatched to our customers and means that we have no need to carry the overhead of service engineers, or add engineer costs to our products. Please bear this in mind when specifying **Mechline's CaterGuard** Gas Interlock System. If on-site emergency call-out cover is required, it is not the responsibility of **Mechline Developments Ltd** to provide this.

Given the nature of the GIS system being interfaced with a number of different control mechanisms, it is highly advisable that you have or provide an emergency contact number to your client for your service / installation engineer, or advise your client of alternative back-up procedures in the event of product activation or operational difficulties. Also, **REMEMBER** there are no systems with overrides. If a GIS actuates, through a sensor signal, the gas supply will be cut off and the client will require immediate engineer attendance. You should advise on such emergency arrangements and procedures.

The warranty on the **Mechline** GIS is for one (1) year from the date of despatch. 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.

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Mechline Returns Policy

If you have a product that you feel is faulty, please ring our sales office for a returns (RN no.) giving us all details, in order for us to log your concern with the item(s) being returned.

We will ask you for a Purchase Order for any replacement parts. This ensures that the end-user / site client has usable product. The replacement parts are then charged to your account. Once the parts / products in question are received, an investigation is carried out to determine the fault. Costs for returning the goods are at the customer's expense.

A report is then issued giving you the findings. If no fault is found, we will return the product in question back to you. If the fault is found to be a manufacturing defect, a credit will be issued subject to our standard warranty policies.

Mechline's standard returns policy is also available at www.mechline.com

Important documents / notes for your consideration and reference :

- Corgi Technical Bulletin - TB 130 BS 6173
- Gas Supply (Installation and Use) regulation GSIUR27-4
- HSE CIS sheet No 23 - Gas Safety in Catering and Hospitality, including "Do I need an Interlock? flowchart." (March 07)
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CaterGuard FPS - Product Information

How to install and use the Fan Power Sensors M-FPS55 & M-FPS330

NOT SUITABLE FOR BELT-DRIVEN FANS

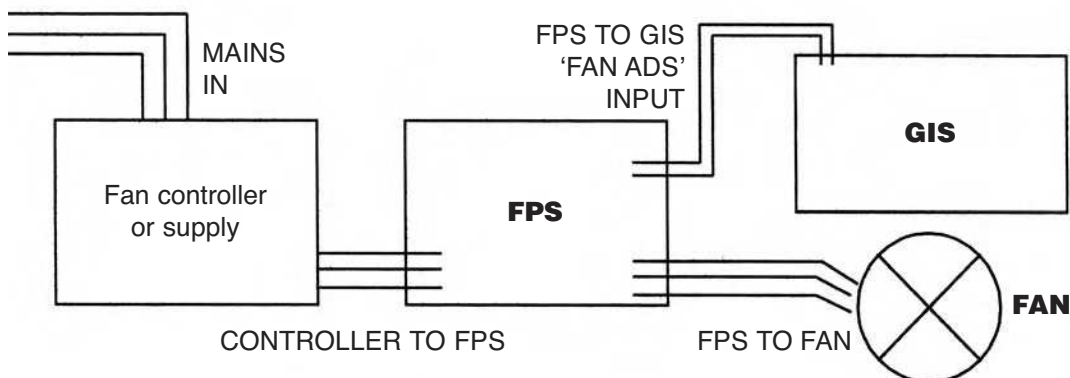
The Fan Power Sensor (FPS) is a device to monitor the current drawn by a fan in a commercial kitchen. It can be used as an alternative to an Air Differential Switch (ADS) or in conjunction with an ADS. If the fan or its supply fails, the FPS will alert a Gas Interlock System (GIS), which will in turn, shut off the incoming gas supply to appliances. Two FPS units must be used if there are 2 fans but only one GIS is required.



The **M-FPS55** is designed for lower-powered fans, where power consumption is between 50W and 500W (0.2A to 2.2A given a 230V supply).

The **M-FPS330** is designed for higher-powered fans, which draw between 300W and 3kW (1.3A to 13A with 230V).

Installation: The FPS is installed in the mains supply to the fan. One (1) or 1.5mm flex recommended. If a fan speed controller is used, the FPS is fitted between the controller and the fan. Connect to the FAN CONTROLLER input on the FPS. Then connect the fan to the FAN output of the FPS. Within the FPS, the input and output connections are directly connected together and thus will have no effect on the fan being controlled. (The current measurement utilises The Hall Effect, which monitors the magnetic flux generated by the mains conductors). **(With a 3 phase supply, connect the FPS to a single active phase only – live/earth/neutral in but the only essential wiring out is live & earth).** Inside the FPS, connect the double terminal marked FAN ADS INPUT to one of the double terminals inside the GIS marked either FAN1 or FAN2. (The FPS appears to the GIS as an Air Differential Switch). Discard the 2 grey dust caps.



Set up: The FPS needs to be set up for the exact power consumption of the fan in use. This is done by running the fan at full speed and opening the FPS lid. Carefully avoiding going near the mains connections, locate the 1/2-inch square adjustment potentiometer and the lamp above it. Using a small electrical screwdriver, rotate the adjuster until the lamp lights up as steady green. Continue to turn until the light goes red then turn back slightly until the light is solid green again. (Note: at one extreme the lamp will not be lit, rotating it will cause the lamp to flash green, getting more on than off until it stays on. Rotating past this point will cause the lamp to light red).

Use: In use, the FPS requires no attention. When the fan is off, too slow or generally not drawing current, the FPS output will cause the GIS to turn off the gas supply by closing the solenoid.

CaterGuard GIS - Product Information

Gas Interlock System & Accessories

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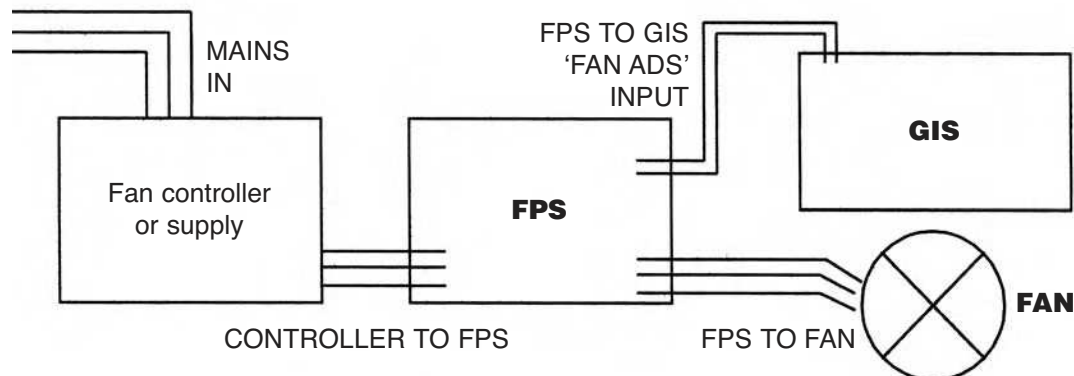
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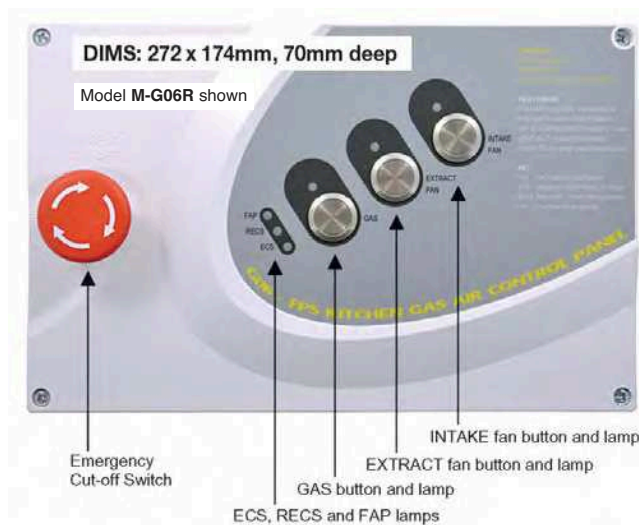
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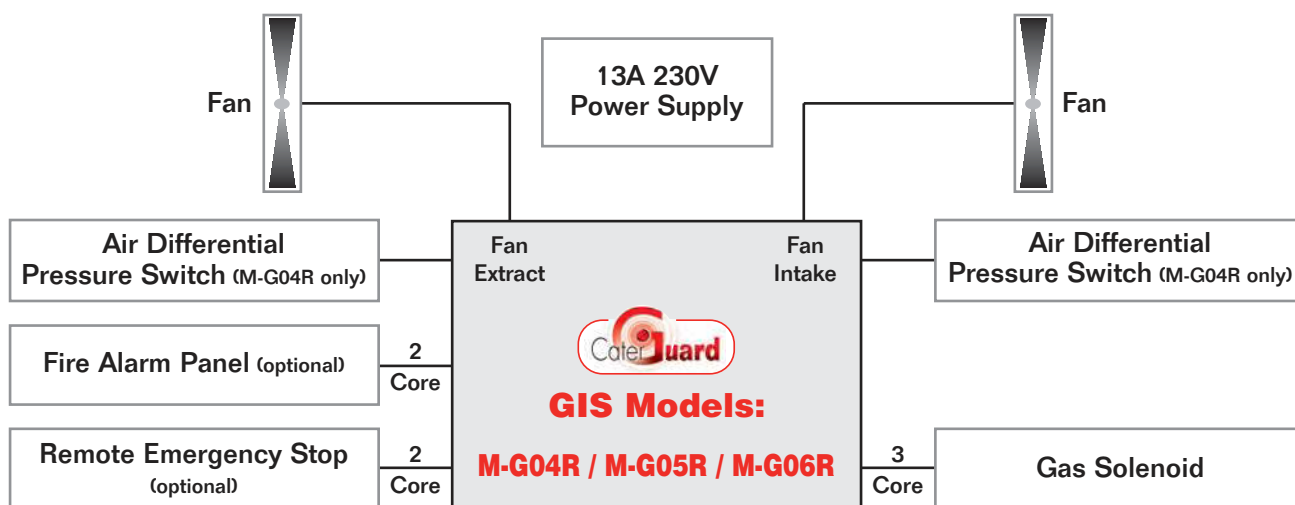
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