

Gasmaster - designed for flexibility, reliability and ease of use

Gasmaster is the simple, flexible solution wherever you need a self-contained, localised control panel to monitor gas or fire hazards.

It is equally at home in the office or on an offshore oil rig. The reason it can perform so well in all these situations is because it comes in three models. So you can choose just what you need for your environment.

The beauty of Gasmaster is its simplicity itself to operate, but packs a lot of performance. All functions can be carried out via push buttons on the front panel. All offer outputs for annunciators, shutdowns and datalogging. All have battery back-up and come with a variety of power inputs.

In short, Gasmaster is the flexible controller that's easy to live with!

The three models in the Gasmaster range all provide two levels of rising or falling alarms for each channel: individual fault and alarm indicators; outputs for annunciators, shutdowns, dedicated audible/visual alarm drive and datalogging; ac and dc power options, and battery backup.

Gasmaster 1

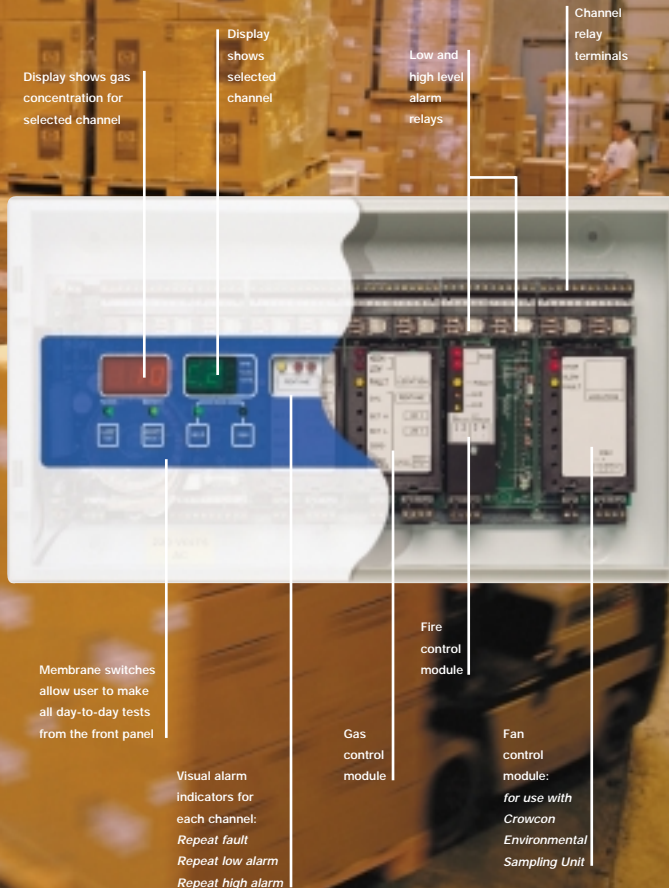
Gasmaster 1 offers a single channel of gas detection and has been especially designed for areas such as light industrial units, boiler rooms and catering areas.

Gasmaster FP

Gasmaster-FP includes all the features of Gasmaster-4, but within a specialist casing, which is certified flameproof.

Gasmaster 4

With the flexibility of four channels, Gasmaster-4 can control both gas and fire detectors and also specialist detectors such as our Environmental Sampling Unit (ESU), making Gasmaster 4 the ideal control panel for industrial applications.



Simple and convenient

The Gasmaster range has been designed so that all day-to-day functions can be

carried out from the front panel. Checking and testing Gasmaster is quick and simple because the channel and test mode can be selected via push buttons on the front panel. So checking for a particular hazard can be done in a moment.

Maintenance is an easy task as well. Alarm levels, instrument zeroing and calibration are all altered by adjustable controls clearly located on each channel.

To help in general operation, Gasmaster has a remote reset facility. Thus when the hazard has gone the system can be reset, stopping audible alarms at the most convenient point on your site.

Flexible output options

Gasmaster can easily be integrated with your current equipment because it offers industry standard

outputs for either 4-20 mA or 1-5 V. Drives are available for remote audible and visual alarms, remote displays, datalogging and chart recorders, allowing you to monitor the system in the most convenient way.

So that wiring is made as easy as possible Gasmaster has dedicated alarm outputs. With this arrangement and very clear terminal labelling inside the case, it is a simple task to locate the correct terminals for each alarm drive dramatically shortening the time needed to complete installation.

Safe and reliable

Alarms can be set for rising and falling gas levels.

Thus both oxygen, flammable and toxic hazards can be monitored. Two levels of alarm permit a warning level of hazard to be set to notify staff before the gas reaches a dangerous concentration whilst allowing for a further alarm to indicate when action must be taken. For oxygen, where high and low levels can present a risk both an upper and lower level can be programmed.

Most importantly, the alarm drives can be configured so that if the power supply is interrupted then the system will indicate a fault. This means it fails safe.



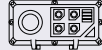
Customised to meet your needs

Two levels of common and individual alarm for each relay mean that Gasmaster can be configured to match the precise requirements of each installation.

Each channel has the capacity to trigger its own alarm (individual) and the whole system (common). Thus Gasmaster will go into general alarm if one or more of the detectors are triggered. In this way, you can configure Gasmaster to match exactly the pattern of hazard that your staff may meet.

to meet your needs

Specification

			
Gasmaster Model	1	4	FP
Size	240 x 240 x 90 mm (9.5 x 9.5 x 3.5 inches)	420 x 240 x 90 mm (16.5 x 9.5 x 3.5 inches)	440 x 230 x 207 mm (17.3 x 9 x 8.1 inches)
Weight	4 kg (9 lbs)	9 kg (20 lbs)	15 kg (33 lbs) - Aluminium 50 kg (110 lbs) - Cast iron
Enclosure material	Mild steel	Mild steel	Aluminium or cast iron
Ingress protection	IP54, IP66 ¹	IP54, IP66 ¹	IP54, IP65 ²
Inputs:			
4-20 mA (sink or source), or mV bridge	•	•	•
Gas:	•	•	•
Gas: Pulsador, electrochemical, semiconductor or thermal conductivity	•	•	•
Fire:	•	•	•
Fire: Smoke detectors, heat detectors and manual call points, up to 20 per channel	•	•	•
Fan control:	•	•	•
Fan control: For use with Crowcon Environmental Sampling Units (ESU) only	•	•	•
Outputs:			
Analogue:	•	•	•
Analogue: 4-20 mA, max. load 150 Ohm or 1-5 V, min load 50 kOhms	•	•	•
Common relay:	•	•	•
Common relay: DPCO, contacts rated @ 250 V ac, 5 A non-inductive load: Low, High, Fault	•	•	•
Individual relay:	•	•	•
Individual relay: DPCO, contacts rated @ 250 V ac, 5 A non-inductive load: Low, High	•	•	•
Relay configuration:	•	•	•
Relay configuration: Rising, falling alarms Energised/de-energised	•	•	•
External audio/visual alarm drive:	•	•	•
External audio/visual alarm drive: 650 mA max current drive (max. 2 x YL4 Yodasights)	•	•	•
Panel indication:			
Channel reading (7 segment red LED)	•	•	•
Channel number (7 segment green LED)	•	•	•
Measurement units (ppm, % LEL, % vol.)	•	•	•
Mains power	•	•	•
Battery OK	•	•	•
Run mode (cycling display)	•	•	•
Hold mode	•	•	•
Alarm indication:			
Audible	•	•	•
Audible: Internal	•	•	•
Visual	•	•	•
Visual: Individual low and high (red LED)	•	•	•
Visual: Individual fault (yellow LED)	•	•	•
Power:			
110/120 V ac, 220/240 V ac 50-60 Hz, 12 V dc, 24 V dc, 50 W max.	•	•	•
Battery back-up	•	•	•
Remote reset	•	•	•
Lamp test	•	•	•
Approvals:			
RF immunity EN 50082-1	•	•	•
RF interference EN 50081-1	•	•	•
Classification EEX d IIB T6	•	•	•
Operating temperature	-10 to +40°C (14 to 104°F)	-10 to +40°C (14 to 104°F)	0 to 50°C (32 to 122°F)
Humidity	0-95% non-condensing	•	•

1. IP54 protection is standard, IP66 available as an option
2. IP54 protection is standard, IP65 available as an option



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Gasmaster



Control panels for gas and fire monitoring

Gasmaster-1

Gasmaster-4

Gasmaster-FP



Designed for flexibility, reliability and ease of use

Dedicated external audio/visual alarm drive

Remote reset switch

Common relays for fault, low and high

Individual channel relays for low and high

Individual channel analogue outputs, 4-20 mA or 1-5Vdc

eg. Shutdowns, Alarm annunciators, and DCS
Datalogger, and signal repeaters



Internal battery back-up¹

Industry-standard gas detectors



Up to 20 fire/heat detectors²



Crowcon Environmental Sampling Unit



1. Not Gasmaster FP
2. Not Gasmaster 1

POWER ac/dc

