



Fixed systems for gas and fire monitoring

## Gasmonitor Plus



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# Gasmonitor Plus

Gasmonitor Plus is our flexible microprocessor controlled system designed with a modular approach, so you get exactly what you want.

Used throughout the world, both on and offshore, Gasmonitor Plus provides the cost effective solution to your system requirements.

Gasmonitor Plus, the gas and fire control system you can trust.

## Simple to use

Gasmonitor Plus offers flexibility whilst still providing simple operation. All the day to day functions are accessible via push buttons on the front panel.

As well as a rolling display, indicating the channel currently monitored, each channel has a bar graph display. This unique bar graph format is ranged to indicate readings below the first alarm setting, providing an instantaneous representation of the gas concentration on every detector.

Common alarm LEDs on the display card and individual alarms on the panel only light when a hazard or fault is detected. This means the whole rack status can be checked at a glance.

## Flexible architecture

Each channel has three levels of alarm as well as a dedicated analogue output, set as 4-20 mA as standard.

Optional relay modules can interface to the panel to provide up to a total of 84 output relays per rack. Sixteen of these relays can be configured/voted from a combination of the three levels of alarm per channel.

The RS232 digital interface provides connectivity with PC for configuration, monitoring and datalog upload. Each rack is uniquely addressable, making multi-drop architectures possible. This cuts down on configuration and monitoring cabling.

## Ground breaking design

Gasmonitor Plus is a microprocessor based expandable control system, which can be multiplied to offer unlimited channels and outputs.

Its modular construction provides ultimate customisation capacity with minimal wiring.

Gasmonitor Plus has industry standard analogue outputs, and the mechanical design is based on 19" Eurorack. This means that the Gasmonitor Plus will integrate fully with existing rack mounted protection systems on site.

The alochrome finish and rack screening plates ensure that the Gasmonitor Plus is impervious to radio frequency interference.

## Easy maintenance

Gasmonitor Plus has been designed with easy servicing and maintenance in mind.

Each channel is inhibited separately so that plant safety is not compromised during maintenance checks.

Routine calibration can be achieved from the front panel. The one man calibration feature reduces the service overhead by half.

One universal gas card architecture controls all gas detectors. This reduces the spares holding required for Gasmonitor Plus maintenance. Each control card is fitted with its own dedicated micro-controller so it can function independently in the event of a single point failure.

Large, clear display

Individual channel  
alarm inhibits

Channel alarm  
indication



Unique  
bargraph  
reading per  
channel

Common alarm indicators

Universal gas  
input cards

Industry-standard  
gas detectors



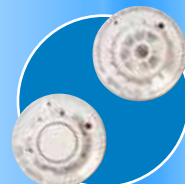
Remote reset switch



Dedicated external audio/  
visual alarm drive



Up to 20 smoke/heat  
detectors per zone



Optional  
Battery  
Backup

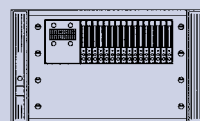


AC/DC  
Power  
Options

Analogue outputs per  
channel  
4-20mA or 1-5Vdc

Common and individual  
channel relays for levels 1, 2,  
3 and Fault

Optional voted relays



Gasmonitor Plus		
Size		483 x 133 x 294 mm (19.0 x 5.25 x 11.5 ins)
Weight		9.5 kg (21 lbs)
Enclosure material		Aluminium alloy
Mounting		Rack mounted (3u format) <sup>1</sup>
Channels		16 per rack
Inputs	Gas	2 or 3 wire, 4-20 mA (sink or source), or mV bridge
	Fire - Smoke detectors, heat detectors and manual call points, up to 20 per loop	Maximum of 32 loops per rack (i.e. 16 twin zone fire modules)
Outputs	Analogue	16 x 4-20mA, max. load 960 Ohms or 1-5 V, min. load 100 Ohms
	External audio/visual alarm drive	Powered 24 V dc, max load up to 200mA for each alarm level
Relays	Type	Up to 84 DPCO contacts rated 5 A @ 250 V ac, non-inductive load
	Assignment	- common - per channel - voting
	Relay modes	Alarm 1, Alarm 2, Alarm 3, Fault Gas alarms 1, 2 & 3, fire & fault Up to 16, configurable energised, de-energised & latching, non-latching
Digital Communications	DCS/PLC/PC/Local configuration link	RS232
Logging		Built-in datalogger - data available via communication links
Panel indication	Channel number Gas reading Measurement units System fault	4 lines x 20 characters back-lit LCD display as above plus green LED bar-graph ppm, %LEL, %vol, fire yellow LED
Alarm indication	Audible-internal sounder Visual	• 3 individual & 3 common alarms (red LED) individual & common fault (yellow LED) individual inhibit (yellow LED)
Power	AC mains DC Battery backup	100 - 260 V ac 50/60 Hz external 27.6 V dc, External
Remote Accept/Reset		•
Lamp test		•
Approvals	Low voltage directive RF immunity RF emissions	Meets BS EN 61010-1 Meets EN 50082-1 Meets EN 50081-1
Operating Temperature		0 to +50°C (32 to 122°F)
Humidity	0 - 95% non-condensing	•

1. Wall mounted and floor standing cabinets are optional, dimensions on request.

A HALMA COMPANY

P05003 Issue 7 05/07



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