

# Gasmonitor Plus

## Gas Detection Control Panel

- Gas and fire monitoring
- Modular input cards
- Easy push-button operation
- Expandable rack based solution
- Optional battery backup



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## Gas Detection Control Panels

### Choosing the Control Panel for your needs

Gasmonitor Plus is our flexible microprocessor-controlled system designed with a modular approach, so you get exactly what you want. Used accross the globe, both on and offshore, Gasmonitor Plus provides the cost-effective solution to your system requirements.



### Features

#### Fixed systems for gas and fire monitoring

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#### Simple to use

Gasmonitor Plus offers flexibility while 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 and datalog upload. Each rack is uniquely addressable, making multi-drop architectures possible. This cuts down on configuration.

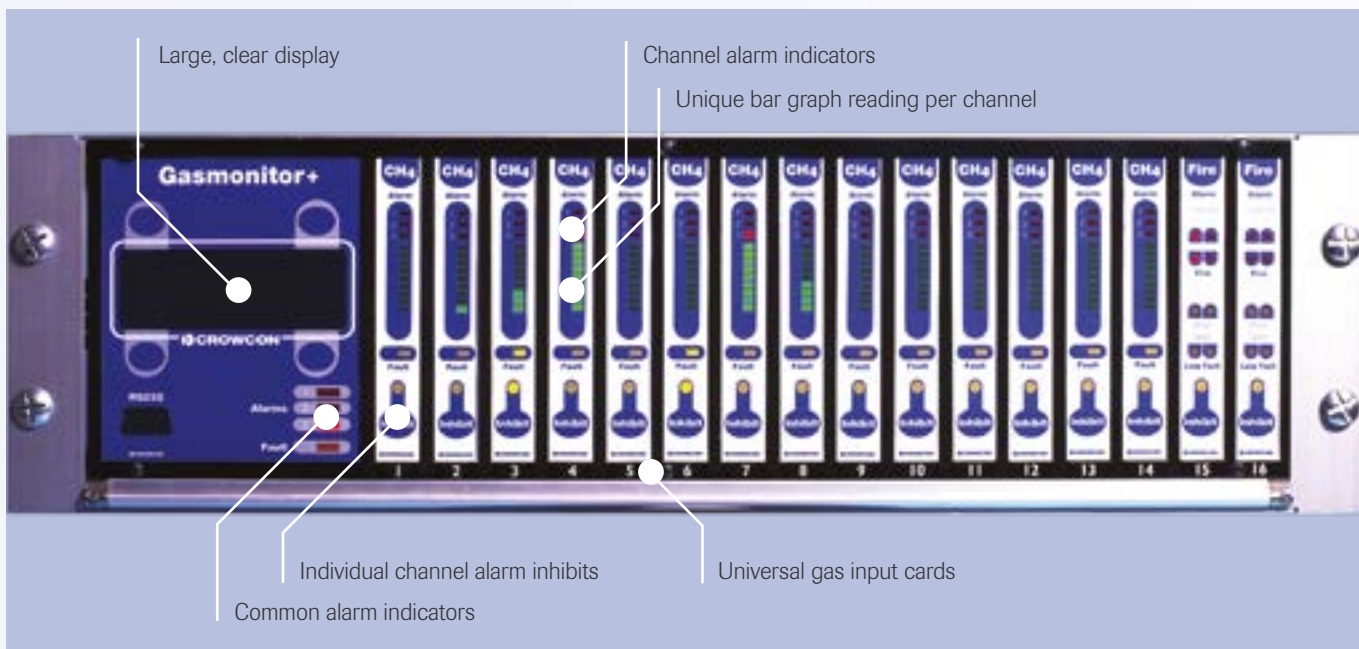
#### Proven in-use

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 minimum wiring.



## Key elements

|  |                         |
|--|-------------------------|
| Industry-standard gas detectors  | Remote reset switch     |
| Analogue outputs per channel - 4-20mA or 1-5Vdc  | AC/DC Power options     |
| Dedicated external audio/visual alarm drive  | Optional voted relays   |
| Dual channel, with up to 20 smoke/heat detectors per zone                                  | Optional battery backup |
| Common and individual channel relays for levels 1, 2, 3 and fault with voting relay option |                         |





## Specification

|                       |  |  |
|-----------------------|--|--|
| Size                  |  | 483 x 133 x 294 mm (19 x 5.25 x 11.5 ins)  |
| Weight                |  | 9.5kg (21lbs)  |
| Enclosure material    |  | Aluminium alloy  |
| Mounting              |  | Rack mounted (3u format)*  |
| Channels              |  | 16 per rack  |
| Inputs                | Gas  | 2 or 3 wire, 4-20mA (sink or source) or mV bridge  |
|                       | Fire - smoke detectors, heat detectors and manual call points, up to 20 per loop | Maximum 32 loops per rack (ie 16 twin zone fire modules)   |
| Outputs               | Analogue   | 16 x 4-20mA, max load 960 Ohms or 1-5 V, min. load 100 Ohms  |
|                       | External audible/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<br>- per channel<br>- voting                                 | Alarm 1, Alarm 2, Alarm 3, Fault<br>Gas alarms 1, 2, & 3, fire & fault<br>Up to 16, configurable   |
|                       | Relay modes  | Energised / de-energised & latching, non-latching  |
| Digital communication |  | RS232 with PanelsPro or SetGMon only   |
| Logging               |  | Built-in datalogger - data available via PanelsPro or SetGmon  |
| Panel indication      | Channel number<br>Gas reading<br>Measurement units<br>System fault               | 4 lines x 20 characters back-lit LCD<br>On main LCD plus green LED bar-graph on channel card<br>ppm, %LEL, %vol, fire<br>yellow LED                        |
| Alarm indication      | Audible-internal sounder   | As standard  |
|                       | Visual - alarm<br>- fault<br>- inhibit   | 3 individual & 3 common alarms (red LED)<br>Individual and common fault (yellow LED)<br>Individual inhibit (yellow LED)                                    |
| Power                 | AC mains   | 100-260 V ac 50/60 Hz external   |
|                       | DC   | 276 V dc   |
|                       | Battery back-up  | External   |
| Remote accept/reset   |  | As standard  |
| Lamp test             |  | As standard  |
| Approvals             | Low voltage directive<br>EMC Directive<br>ATEX                                   | Meets BS EN 61010-1<br>Meets EN 50082-1, EN 50081-1, EN 50270, EN61000-6-4<br>Conforms to EN60079-25 in configuration with Zener Barrier Baseefa 05Y0090/1 |
| Operating temperature |  | 0°C to +50°C (32°F to 122°F)   |
| Humidity              |  | 0-95% non-condensing   |

\* Wall-mounted and floor-standing cabinets are optional, dimensions on request.

### Disclaimer

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