

Ribble Enviro
...everything gas detection

Data Sheet

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GASMASTER

Gas detection control panel

With its modular design, our enhanced Gasmaster is an adaptable and cost-effective solution.



Gasmaster is a compact, versatile and powerful gas detection control panel that combines simple operation with an extensive array of input and output functions.

Gasmaster provides all the information you need about your gas and fire detectors at a glance. The large multi-lingual display shows gas levels from all detectors simultaneously, with a user-friendly menu system that is intuitive, making system adjustment and testing using buttons on the front panel a straight forward process requiring minimal training.

The Gasmaster gas detector control panel can operate 'stand-alone', or interface with any alarm devices and control systems using a selection of outputs. With the ability to add up to four detectors in virtually any combination, the Gasmaster provides two levels of independent alarm per channel, with remote inhibit and reset capabilities meaning you have full control from anywhere on your site, at all times.

FEATURES

Large Display

- Enables full systems checks at a glance
- All gas levels are displayed simultaneously
- Alarm messages can be customised to indicate the name or location of any detector in alarm

User Friendly

- Menu system is intuitive and easy to use, allowing configuration changes to be made easily
- All functions, from day-to-day operation to re-calibration, can be carried out from the front panel
- Event log feature enables system fault and alarm history to be viewed

Versatile input and output features

- Analogue, relay and Modbus outputs facilitate communication around the site
- Two levels of independent alarm per channel can be configured to suit site requirements
- Compatible with 4-20mA or mV pellistor type gas detectors.

SPECIFICATIONS

		GASMASTER 1	GASMASTER 2
SIZE		288 x 278 x 110mm (11.3 x 10.9 x 4.3ins)	
WEIGHT		4.5kg (10lbs)	
ENCLOSURE MATERIAL		Back-box: cast aluminium. Front cover: ABS (flame retardant)	
INGRESS PROTECTION		IP65	
POWER		100-240Vac 50-60Hz or 20-30Vdc, 60W max	
BATTERY BACK-UP		1.2Ah batteries fitted internally	
OPERATING TEMPERATURE		-10° C to +50° C (14° F to 122° F)	
HUMIDITY		0 to 95% RH non-condensing	
INPUTS	Gas	One 2 or 3 wire 4-20mA gas detector (sink or source) or mV pellistor flammable gas detector	One to four 2 or 3 wire 4-20mA gas detectors (sink or source) or mV pellistor flammable gas detectors
	Fire	One loop of up to 20 conventional smoke/heat detectors or manual call points, or one flame detector (4-20mA or digital contact signal)	One to four loops of up to 20 conventional smoke/heat detectors or manual call points, or one to four flame detectors
	Environmental Sampling Unit	For use with one Crowcon ESU fan	For use with one to four Crowcon ESU fans
	Remote inhibit	Via normally open contact	
	Remote reset	Via normally open contact	
OUTPUTS	Relays DPCO contacts rated 250Vac 8A. Relays can be set as energised or de-energised, latching or non-latching, latching acceptable	Low alarm. High alarm. Fault. Alarm relays can be set for rising or falling alarms. Hysteresis can be adjusted on low alarms	Low alarm and high alarm per channel plus common low, high and fault. Alarm relays can be set for rising or falling alarms. Hysteresis can be adjusted on low alarms
	A/V alarm drive	12Vdc or 24Vdc 650mA max. drive. Suitable for +ve or -ve switched alarms	
	Analogue	4-20mA (current source, max. loop resistance 700Ω) or 1-5Vdc (min. load 50kΩ)	4-20mA for each channel (current source, max. loop resistance 700Ω or 1-5Vdc (min. load 50kΩ)
	Serial link	RS-485 Modbus RTU for monitoring and control via DCS/SCADA/PLC systems	
COMMUNICATIONS PORT		Optional port for PC configuration and event log upload	
EVENT LOGGING*		Time-stamped log of up to 300 alarms, fault or system intervention activities	
PANEL INDICATION		LCD back-lit display shows gas level (in ppb, ppm, % volume or % LEL units), and scrolling alphanumeric status indication. LED's for Alarm, Fault, Power and Warning. Integral 85dB sounder (at 10cm)	
APPROVALS		EMC: EN50270, EN60945, FCC: CFR 47 Part 15; ICES-003 ATEX: May be used in a non-hazardous area as part of Intrinsically Safe System conforming to EN60079-25 Baseefa 05Y0090/1	
FUNCTIONAL SAFETY		Validated to IEC 61508 (SIL Capable)	

Disclaimer

Due to ongoing research and product improvement, specifications are subject to change without notice. While every effort has been made to ensure accuracy in this document, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This document is not intended to form the basis of a contract.

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