CROWCON
Detecting Gas Saving Lives

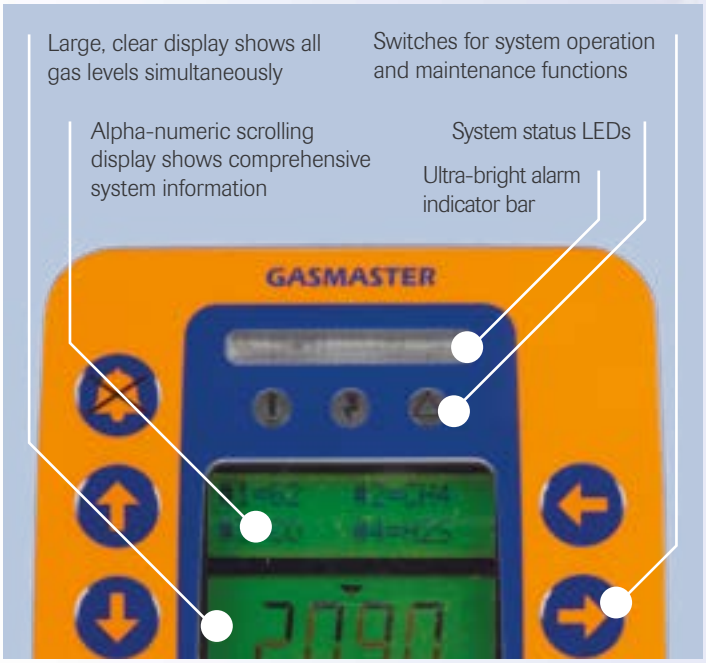
Gasmaster

Gas Detection Control Panels

- Large display
- User friendly
- Versatile input and output functions
- Modular design
- Up to four detectors

Gasmaster

1-4 Channel Gas Detection Control Panel



Large display

All gas levels are displayed simultaneously	Enables full systems status check at a glance
Alarm messages can be customised to indicate the name or location of any detector in alarm	
The LCD can be set to display in many languages	

User friendly

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

Product description

Crowcon 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, and enables system adjustment and testing using buttons on the front panel. Crowcon Gasmaster can operate 'stand-alone' or interface with any alarm devices and control systems using a selection of outputs.

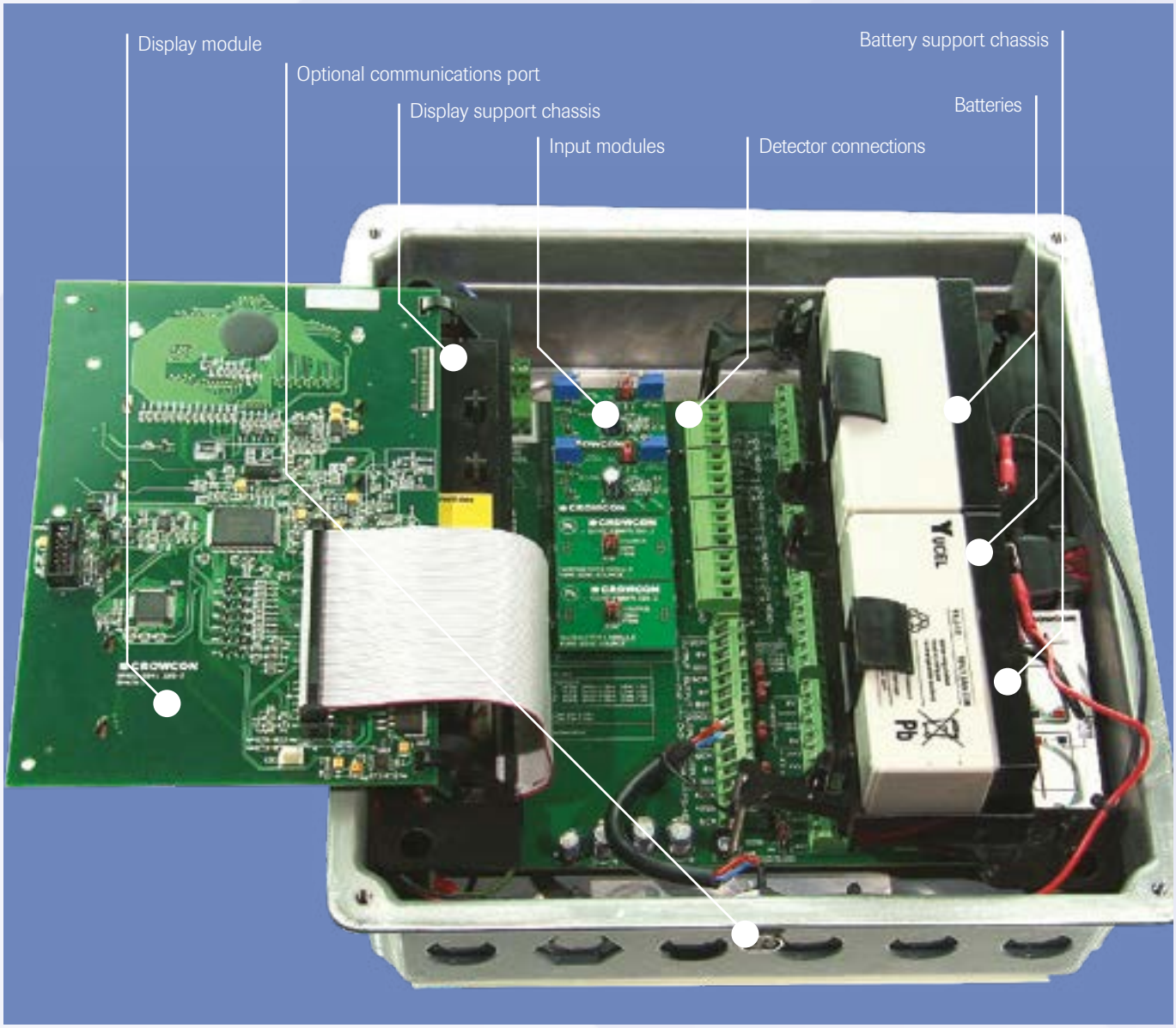
Versatile input and output features

Provides analogue, relay and Modbus outputs	Facilitating communication around the site
Flexibility	Gasmaster can monitor up to four detectors in virtually any combination of gas detectors, fire zones or Environmental Sampling Unit*
	Software enables re-configuration and event log upload in an instant**
Two levels of independent alarm per channel	Can be configured to suit site requirements
Remote inhibit and reset facilities	Enables control from any point on your site
Compatible with 4-20mA or mV pellistor type gas detectors	mV pellistor detectors reduce system purchase and maintenance costs

Modular design

You only need to purchase the required number of input modules	1, 2 and 3 channel systems can be extended later by adding additional modules***

* Contact Crowcon for details ** Event Log access requires optional PC communications kit *** Gasmaster 4 only



Specification

		Gasmaster 1	Gasmaster 4
Size		288 x 278 x 110mm (11.3 x 10.9 x 4.3 ins)	
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-latchng, 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 alpha-numeric 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 IEC61508 SIL2	

*Event log access requires a Gasmaster PC communications kit and communications port.

Disclaimer

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