

Gasman

Portable Gas Detection Equipment



- | Robust
- | Effective warning
- | Flexible
- | User friendly



Gasman

Personal Single Gas Monitor

When lives and property are at risk and you need gas detection equipment that is totally reliable, you need Crowcon. For over 40 years Crowcon has been developing and manufacturing high quality products with a reputation for reliability and technical innovation.

Crowcon provide both single gas and multigas monitors for personal safety and portable monitoring applications providing protection against a wide range of industrial gas hazards.



Choosing the portable gas detector for your needs

Gasman is a range of rugged, compact single gas personal monitors designed for use in the toughest environments.

With rugged impact resistant construction and compliance to IP65, Gasman offers a wide range of gases, including six flammable calibration options. Gasman gives an unbeatable combination of powerful loud and bright alarms. It's stunningly compact and lightweight design makes it ideal for use in industries such as oil and gas, chemical, steel works and waste and water works.

Gasman is small, light and easy to use. Weighing just 130g, it is extremely durable, with high impact resistance and dust/water ingress protection to IP65. When potentially hazardous levels of gas are detected, the Gasman alerts the user with a loud 95 dB alarm, a vivid red/blue visual warning and also by vibrating.

Gasman features simple, single-button control and has an easy-to-read, backlit LCD display to ensure clear viewing of gas level readings, alarm conditions and battery life. Data and event logging are available as standard, and there is a built-in 30 day advance warning when calibration is due.



Robust

Tough polycarbonate housing	Protects you in the harshest environments
Water and dust resistant to IP65	
Full overmoulding	High impact resistance

Effective warning

2 levels of instantaneous alarm and TWA alarms for toxic versions	Ensures prompt evacuation from hazardous zone
95dB audible alarm	
Vivid twin red/blue visual alarm	If ambient noise is high, Gasman still alerts you by vibrating and with the high impact blue/red LED alarms
Internal vibrating alarm	

Flexible

Versions available for flammable gas, oxygen and toxic gases	Gas detector tailored to your requirements
Rechargeable versions for all gas types	
Non-rechargeable versions for oxygen and toxic gases	
Real time TWA and peak display options	
Fully interchangeable intelligent sensor modules	

User friendly

One button operation	Quick and easy to use
Backlit display for gas diagnostics and operating status	Easy to read
Ultra lightweight- just 85g for toxic versions	Comfortable to wear



Gas Test Kit

The Gas Test Kit provides a simple and convenient means of carrying out either bump test or a field calibration.

Gases and Ranges

Required ranges and alarms vary by country and application and these can be configured as required. Each gas channel can have two instantaneous alarm levels set. Toxic units also have Time Weighted Average (TWA) alarms.

Flammable gas calibration is available for methane, propane, pentane, hydrogen and ethylene as standard. Contact Crowcon for other target flammable gases and information on unfiltered sensors for alcohols, ketones, and general solvents.

Gasman is also available in a safe area CO₂ version offering 0-5% carbon dioxide measurements.

Typical ranges and alarms:

Gas	Range	Standard Alarm (UK)
Ammonia (NH ₃)	0-1000ppm	25ppm
Carbon monoxide (CO)	0-1500ppm	30ppm
Carbon dioxide (CO ₂)	0-5%	0.5%
Carbon monoxide (H ₂ filtered)	0-500ppm	30ppm
Chlorine (Cl ₂)	0-20ppm	0.3ppm
Chlorine Dioxide (ClO ₂)	0-1ppm	0.1ppm
Ethylene Oxide (ETO)	0-10ppm	3ppm
Flammable	0-100% LEL	20% LEL
Fluorine (F ₂)	0-1ppm	0.5ppm
Hydrogen (H ₂)	0-2000ppm	N/A
Hydrogen cyanide (HCN)	0-25ppm	5ppm

Gas	Range	Standard Alarm (UK)
Hydrogen fluoride (HF)	0-10 ppm	1ppm
Hydrogen sulphide (H ₂ S)	0-250 ppm	5ppm
Nitric oxide (NO)	0-100 ppm	25ppm
Nitrogen dioxide (NO ₂)	0-20 ppm	1ppm
Oxygen (O ₂)	0-25%	19/23%
Ozone (O ₃)	0-1 ppm	0.1ppm
Phosphine (PH ₃)	0-5 ppm	0.1ppm
Phosgene (COCl ₂)	0-1 ppm	0.1ppm
Sulphur dioxide (SO ₂)	0-20 ppm	1ppm

Other gas ranges are available - please contact Crowcon for more information.

Please see the back page for full technical specifications.

Gasman Specification:

Size		90 x 48 x 24 mm (3.5 x 1.9 x 0.95 ins)
Weight	Flammable Toxic Oxygen Carbon dioxide	138g (4.9oz) 85g (3oz) 129g (4.6oz) 139g (4.9oz)
Typical response times (T₉₀)	Flammable Toxic gas Oxygen	20s 20s 10s
Alarms	Audible	95dB Multiple alarm options let you select distinctive tones for different alarm levels
	Visible	Dual colours red/ blue flashing LEDs in a gas hazard
	Vibrating	Internal vibrating alarm
Display		Custom LCD with backlight and display of gas concentration. Graphic symbols for battery (with proportional indication of remaining operation time), and display mode. Start up indication when calibration is due within 30 days, calibration overdue or service required.
Display modes	Normal display Display recall	Real time gas concentration levels Peak readings and TWA
Datalogging		Full timed data logging with adjustable sample rate, set to 1 min. data rate as default. 900 hours storage at 1 min. interval (54,000 logs), >4800 events
Battery	Rechargeable	Lithium battery for all gas types
	Non rechargeable	Lithium battery for toxics and oxygen (excluding CO ₂)
Operating time*	Rechargeable	12 hours minimum for flammable unit
	Non rechargeable	Up to 2 years
Sampling		Optional manual aspirator
Operating temperature range**		-20°C to + 65°C (-4°F to +149°F)
Humidity		5-95% RH***
Ingress protection		IP65
Approval codes	Europe	Toxic or O ₂ : ATEX II 1G Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C) BASEEFA04ATEX0384 Flammable: ATEX II 2G Ex ia d IIC T4 Gb (-20°C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383
	International	Toxic or O ₂ : IECEx BAS05.0039 Flammable: IECEx BAS05.0038
	North America	CSA Class 1 Groups A,B,C,D Division 1
Standards safety	Europe	EN60079-0, EN60079-11, EN60079-1, 2014/34/EU
	North America	CSA22.2, 152
Operation standards		EN50270, EN50271, IEC61508, EN61779, EN45544
PC interface		RS232 connection from 'Charger/interface' variation RS232/USB converter available
Calibration		Gasman can be routinely calibrated using Portables Pro software
Accessories		Gasman is supplied with an integral alligator clip. Optional accessories: gas test kit, Gasman external filter, leather carry case, single way charger, charger interface software and communication kit (exluding PSU), 5 way multi-charger

*Operating time will depend on operating pattern and alarm occurrence. Frequent or long lasting alarms and use of the optional confidence beep will reduce battery life.

**Toxic and oxygen sensors are not rated for continuous operation at high temperatures. Consult Crowcon if operating temperatures are likely to exceed 40°C (104°F) for extended periods.

*** Sensor humidity range varies by sensor type, consult Crowcon for further details

Crowcon reserves the right to change the design or specification of the product without notice.
Check www.crowcon.com for updates.

www.crowcon.com

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