

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 monitoring and portable safety 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. Its 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

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|----------------------------------|---|
| 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

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| 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

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| 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 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, butane, pentane, hydrogen and ethylene as standard.

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

Typical ranges and alarms:

| Gas | Range | Standard Alarm (UK) |
|---|------------|---------------------|
| Carbon monoxide (H ₂ filtered) | 0-500ppm | 30ppm |
| Ammonia (NH ₃) | 0-100ppm | 25ppm |
| Carbon monoxide (CO) | 0-500ppm | 30ppm |
| Carbon dioxide (CO ₂) | 0-5% | 0-5% |
| Chlorine (Cl ₂) | 0-20ppm | 0.5ppm |
| Flammable | 0-100% LEL | 20% LEL |
| Fluorine (F ₂) | 0-1ppm | 0.1ppm |
| 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) | 0-100 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 | 0.2ppm |
| Phosgene (CCL ₂) | 0-1 ppm | 0.1ppm |
| Sulphur dioxide (SO ₂) | 0-20 ppm | 1ppm |

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 monoxide | 138g (4.9oz) 118g (4.1oz) 129g (4.6oz) 139g (4.9oz) |
| Typical response times (T₉₀) | Flammable Toxic gas Oxygen | 20s 20s 10s |
| Alarms | Audible Visible Vibrating | 95dB Multiple alarm options let you select distinctive tones for different alarm levels Dual colours red/ blue flashing LEDs in a gas hazard Internal vibrating alarm |
| Display | | Custom LCD with backlight, with 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 datalogging 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 Non rechargeable | Lithium battery for all gas types Lithium battery for toxics and oxygen (excluding CO ₂) |
| Operating time* | Rechargeable Non rechargeable | 12 hours minimum for flammable unit Up to 2 years |
| Sampling | | Optional manual aspirator |
| Operating temperature range** | | -20°C to + 65°C (-4°F to +149°F) |
| Humidity | | 20-90% RH |
| Ingress protection | | IP65 |
| Approval codes | Europe International North America | Toxic or O ₂ : ATEX II 1G Ex ia IIC T4 Ga (-200C ≤ Ta ≤ +65°C) BASEEFA04ATEX0384 Flammable: ATEX II 2G Ex ia d IIC T4 Gb (-200C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383 Toxic or O ₂ : IECEx BAS05.0039 Flammable: IECEx BAS05.0038 CSA Class 1 Groups A,B,C,D Division 1 |
| Standards safety | Europe North America | EN60079-0, EN60079-11, EN60079-1, 94/9/EC CSA22.2, 152 |
| Operation standards | | EN50270, EN50271, IEC61508, EN61779, EN45544 |
| PC interface | | RS232 connection from interface module in charger RS232/USB converter available |
| Calibration | | Gasman can be routinely calibrated using Portables PC software or by using Checkbox IMH |
| Accessories | | Gasman is supplied with an integral alligator clip |

*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.

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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Detecting Gas Saving Lives