

# Gasman

## Personal Rechargeable Single Gas Monitor

Robust

Effective warning

Flexible

User friendly



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

With 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.



### 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   |



## Typical ranges and alarms

| Gas                                       | Range      | Typical alarms |
|---|------------|----------------|
| Ammonia (NH <sub>3</sub> )                | 0-1000ppm  | 25ppm          |
| Carbon monoxide (CO)                      | 0-500ppm   | 30ppm          |
| Carbon dioxide (CO <sub>2</sub> )         | 0-5%       | 0.5%           |
| Carbon monoxide (H <sub>2</sub> filtered) | 0-500ppm   | 30ppm          |
| Chlorine (CL <sub>2</sub> )               | 0-20ppm    | 0.3ppm         |
| Chlorine Dioxide (ClO <sub>2</sub> )      | 0-1ppm     | 0.1ppm         |
| Ethylene Oxide (ETO)                      | 0-10ppm    | 3ppm           |
| Flammable                                 | 0-100% LEL | 20% LEL        |
| Fluorine (F <sub>2</sub> )                | 0-1ppm     | 0.5ppm         |
| Hydrogen (H <sub>2</sub> )                | 0-2000ppm  | N/A            |
| Hydrogen cyanide (HCN)                    | 0-25ppm    | 5ppm           |

| Gas                                  | Range     | Typical alarms |
|--------------------------------------|-----------|----------------|
| Hydrogen fluoride (HF)               | 0-10 ppm  | 1ppm           |
| Hydrogen sulphide (H <sub>2</sub> S) | 0-250 ppm | 5ppm           |
| Nitric oxide (NO)                    | 0-100 ppm | 25ppm          |
| Nitrogen dioxide (NO <sub>2</sub> )  | 0-20 ppm  | 1ppm           |
| Oxygen (O <sub>2</sub> )             | 0-25%     | 19.5%/23.5%    |
| Ozone (O <sub>3</sub> )              | 0-1 ppm   | 0.1ppm         |
| Phosphine (PH <sub>3</sub> )         | 0-5 ppm   | 0.1ppm         |
| Phosgene (COCl <sub>2</sub> )        | 0-1 ppm   | 0.1ppm         |
| Sulphur dioxide (SO <sub>2</sub> )   | 0-20 ppm  | 1ppm           |

### Disclaimer

Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement Crowcon Detection Instruments Limited reserves the right to make product changes without notice. The products are routinely subject to a programme of testing which may result in some changes in the characteristics quoted. Technical information contained in this document or otherwise provided by Crowcon are based upon records, tests, or experience that the company believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed.

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## Specification

|                                     |  |  |
|-------------------------------------|--|--|
| Size                                |  | 90 x 48 x 24 mm (3.5 x 1.9 x 0.95 ins)   |
| Weight                              | Flammable<br>Toxic<br>Oxygen<br>Carbon dioxide | 138g (4.9oz)<br>85g (3oz)<br>129g (4.6oz)<br>139g (4.9oz)  |
| Typical response times ( $T_{90}$ ) | Flammable<br>Toxic gas<br>Oxygen               | 20s<br>20s<br>10s  |
| Alarms                              | Audible  | 95dB<br>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<br>Display recall               | Real time gas concentration levels<br>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 <sub>2</sub> )   |
| 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 <sub>2</sub> : ATEX II 1G Ex ia db IIC T4 Ga (-20°C ≤ Ta ≤ +65°C) BASEEFA04ATEX0384<br>Flammable: ATEX II 2G Ex ia d IIC T4 Gb (-20°C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383   |
|                                     | International                                  | Toxic or O <sub>2</sub> : IECEx Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C) BAS05.0039<br>Flammable: Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +65°C)  |
|                                     | North America                                  | CSA Class 1, Division 1, Groups A, B, C, D   |
| Standards safety                    | Europe   | EN60079-0, EN60079-11, EN60079-1, 2014/34/EU   |
|                                     | North America                                  | CSA22.2<br>Atex 2014/34/EU   |
| Operation standards                 |  | EN50270, EN50271, IEC61508, EN61779, EN45544   |
| PC interface                        |  | RS232 connection from 'Charger/interface' variation<br>RS232/USB converter available   |
| Calibration                         |  | Gasman can be routinely calibrated using Portables PC 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 (excluding 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 400C (1040F) for extended periods.

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



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