**Personal Monitor**  
For oxygen, toxic or flammable gases

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**Gasman**  
A personal monitor you can trust

Designed to meet the need for personal monitoring in tough industrial environments, Gasman is small, light, and simple to use providing comprehensive warning of hazardous gas conditions. Featuring interchangeable i-module intelligent sensors and simple single button operation, Gasman is the most flexible and easy to use product available today. Rugged in design meeting both IP65 and IP67 standards for ingress protection, Gasman sets a new standard for personal gas monitors.

<table>
<thead>
<tr>
<th>Simple</th>
<th>Robust</th>
</tr>
</thead>
<tbody>
<tr>
<td>• True one button operation</td>
<td>• Tough polycarbonate housing</td>
</tr>
<tr>
<td>• Easy to read LCD display with backlight</td>
<td>• Full elastomeric overmoulding</td>
</tr>
<tr>
<td>• Clear indication of operating status</td>
<td>• High impact resistance</td>
</tr>
<tr>
<td>• 30 days advance calibration due warning</td>
<td>• IP65 and IP67 compliant</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assurance</th>
<th>Flexible</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 95dBA audible alarm</td>
<td>• Fully interchangeable i-module sensors</td>
</tr>
<tr>
<td>• Striking twin red/blue visual alarm</td>
<td>• Flammable toxic and oxygen sensors available</td>
</tr>
<tr>
<td>• Internal vibrating alarm</td>
<td>• Rechargeable version for all gas types</td>
</tr>
<tr>
<td>• 2 levels of instantaneous alarm</td>
<td>• Dry cell versions for toxics and oxygen</td>
</tr>
<tr>
<td>• Time weighted average alarms for toxic</td>
<td>• Data and event logging</td>
</tr>
<tr>
<td>versions</td>
<td></td>
</tr>
</tbody>
</table>

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CROWCON  
Gas Detection You Can Trust
## Specification

**Weight**  
130g flammable  
100g oxygen  
90g toxic

**Dimensions**  
90x48x24mm (3.5x1.9x0.95 inch) HxWxD

### Available gases and ranges

<table>
<thead>
<tr>
<th>Gas</th>
<th>Range</th>
<th>Alarm UK</th>
<th>Alarm US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable</td>
<td>0-100%LEL</td>
<td>20%LEL</td>
<td>10%LEL</td>
</tr>
<tr>
<td>Oxygen</td>
<td>0-25%</td>
<td>19/23.5%</td>
<td>19.5/23.5%</td>
</tr>
<tr>
<td>Hydrogen Sulphide</td>
<td>0-500ppm</td>
<td>5ppm</td>
<td>10ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>0-500ppm</td>
<td>30ppm</td>
<td>35ppm</td>
</tr>
<tr>
<td>Sulphur Dioxide</td>
<td>0-10ppm</td>
<td>1ppm</td>
<td>2ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>0-5ppm</td>
<td>0.5ppm</td>
<td>0.5ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>0-10ppm</td>
<td>1ppm</td>
<td>3ppm</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0-50ppm</td>
<td>25ppm</td>
<td>25ppm</td>
</tr>
<tr>
<td>Ozone</td>
<td>0-1ppm</td>
<td>0.1ppm</td>
<td>0.1ppm</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>0-1000ppm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Hydrogen Cyanide</td>
<td>0-25ppm</td>
<td>5ppm</td>
<td>5ppm</td>
</tr>
<tr>
<td>Hydrogen Chloride</td>
<td>0-10ppm</td>
<td>1ppm</td>
<td>1ppm</td>
</tr>
<tr>
<td>Hydrogen Fluoride</td>
<td>0-10ppm</td>
<td>1ppm</td>
<td>1ppm</td>
</tr>
<tr>
<td>Phosphine</td>
<td>0-2ppm</td>
<td>0.2ppm</td>
<td>0.2ppm</td>
</tr>
<tr>
<td>Ethylene Oxide</td>
<td>0-10ppm</td>
<td>5ppm</td>
<td>5ppm</td>
</tr>
</tbody>
</table>

Other ranges and alarm levels are available on request. Each unit can have two instantaneous alarm levels set. Toxic units also have Time Weighted Average alarms.

Flammable gas calibration is available for methane, propane, butane, pentane, hydrogen and ethylene as standard.

**Typical response times**  
Flammable 20s, Toxic gas 20s, Oxygen 10s

**Audible Alarms**  
95dBA  
Multiple alarm sounds allow selection of distinctive tones for different alarm levels

**Visible Alarms**  
Dual colour red/blue flashing LEDs in gas hazard

**Vibrating alarm**  
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 Mode**  
Normal display for real time gas concentration levels. Display recall for Peak readings and TWA

**Datatalogging**  
Full timed datalogging with adjustable sample rate, set to 1 minute data rate. 900 hours storage at 1 minute interval. 5000+ capacity event logging to record all instrument events including:  
Switch on/off, Battery status, Alarms activate/clear including peak values of response, Gas Test pass or fail. All events are time stamped

### Battery Types

- Rechargeable: Li-ion battery
- Non rechargeable: Lithium Cell

### Operating Time

- Rechargeable: 12 hours minimum for flammable unit  
- Non rechargeable: Up to 2 years

Note: 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.

**Sampling**  
Optional manual aspirator

**Operating temp. range**  
-20°C to +55°C (-4°F to +131°F)

**Humidity**  
0-99% RH

**Approval Codes**

- Europe: ATEX II 1G EEx ia IC T4 (Tamb -20°C to +55°C)  
- Flammable

**USA/Canada**  
Class I Groups A, B, C, D Division I

**Standards**

- Safety  
- Europe: EN50014, EN50020, EN50018, 94/9/EC

**Operation**  
- USA & Canada: UL913, CSA22.2, 125

**Ingress Protection**  
IP65/IP67

**PC Interface**  
RS232: connection from Interface module in charger.  
RS232/USB conveter available

**Autocalibrator**  
Gasman can be routinely calibrated using the Crowcon Autocalibrator II in conjunction with the PC software.

**Accessories**  
Gasman is supplied with an integral pocket clip.

**Charger**  
Single way drop in charger with options of UK, European or US style plug in mains supplies, or in line universal supply.  
Optional PC Interface module within the single way charger.  
Vehicle lighter socket lead available.  
5 way multicharger with universal power supply.

Optional accessories include: alligator clip, universal harness plate, shoulder strap, chest harness, aspirator assembly (flow plate, bulb and 2m/6ft tubing).

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