PERSONAL MINI-GAS DETECTOR

GASMAN

FEATURES

- Extremely compact, small pocket size
- Light - Only 80 to 130 grams (2.8 to 4.6 ounces)
- Simple - True one button operation
- Easy to read LCD display with backlight
- Clear indication of operating status
- 30 Days advance calibration due warning
- Fast responding assurance - 95dBA audible alarm
- Striking twin red/blue visual alarm
- Internal vibrating alarm
- 2 levels of instantaneous alarm
- Peak hold with TWA alarms for toxic versions
- Robust - Tough polycarbonate housing
- Full elastomeric overmoulding
- High impact resistance
- IP65 and IP67 compliant
- Flexible - Fully interchangeable i-module sensors
- Flammable toxic and oxygen sensors available
- Rechargeable version for all gas types
- Dry cell versions for toxics and oxygen (Lasts up to two years)
- Data and event logging
- Intrinsically safe - CSA, ATEX, and other approvals

Gasman replaces the original Gasman and Gasman II units setting new standards for personal gas monitoring of flammable, oxygen and toxic gases. This version is the lightest and lowest cost but is also the most advanced, flexible, durable, and compact!

Designed for use in the toughest environments, Gasman offers an unbeatable combination of powerful loud, bright, and internal vibrating alarms. Together with its rugged impact resistant construction and compliance to IP65 and IP67, Gasman is the ideal choice for personal monitoring in demanding industrial environments.

CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"
### GASMAN SPECIFICATIONS

**Weight**
- 130g Flammable
- 95g Oxygen
- 80g Toxic

**Dimensions**
- 90 x 48 x 24 mm (3.5 x 1.9 x 0.95 inch) H x W x D

**Available Gases and ranges**

<table>
<thead>
<tr>
<th>Gas</th>
<th>Range</th>
<th>Alarm UK and ROW</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>19.5% / 23.5%</td>
<td>19.5% / 23.5%</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>0-100 ppm</td>
<td>5 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>0-500 ppm</td>
<td>5 ppm</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>0-500 ppm</td>
<td>30 ppm</td>
<td>35 ppm</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>0-1500 ppm</td>
<td>30 ppm</td>
<td>35 ppm</td>
</tr>
<tr>
<td>Sulphur Dioxide</td>
<td>0-20 ppm</td>
<td>1 ppm</td>
<td>2 ppm</td>
</tr>
<tr>
<td>Chlorine</td>
<td>0-20 ppm</td>
<td>0.5 ppm</td>
<td>0.5 ppm</td>
</tr>
<tr>
<td>Chlorine Dioxide</td>
<td>0-1 ppm</td>
<td>0.1 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>0-20 ppm</td>
<td>1 ppm</td>
<td>3 ppm</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0-100 ppm</td>
<td>25 ppm</td>
<td>25 ppm</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0-1000 ppm</td>
<td>25 ppm</td>
<td>25 ppm</td>
</tr>
<tr>
<td>Ozone</td>
<td>0-1 ppm</td>
<td>0.1 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>0-2000 ppm</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Hydrogen Cyanide</td>
<td>0-25 ppm</td>
<td>4.7 ppm</td>
<td>4.7 ppm</td>
</tr>
<tr>
<td>Hydrogen Fluoride</td>
<td>0-10 ppm</td>
<td>5 ppm</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Phosphine</td>
<td>0-5 ppm</td>
<td>0.2 ppm</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Fluorine</td>
<td>0-1 ppm</td>
<td>0.1 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Ethylene Oxide</td>
<td>0-10 ppm</td>
<td>5 ppm</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Nitric Oxide</td>
<td>0-100 ppm</td>
<td>25 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Phosphine</td>
<td>0-1 ppm</td>
<td>0.1 ppm</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>0-5%</td>
<td>0.5%</td>
<td>0.5%</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.

**Datalogging**
- Full timed datalogging with adjustable sample rate, set to 1 minute data rate.
- 900 hours storage at 1 minute interval.
- >4800 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

**Sampling**
- Optional manual aspirator

**Operating Temp.**
- Flammable 20s, Toxic gas 20s, Oxygen 10s

**Humidity**
- 0-99% RH

**Approval Codes**
- Europe: ATEX II 1G EEx ia IIC T4 (Tamb -20°C to +65°C) Toxic Oxygen
- USA/Canada: Class 1 Groups A, B, C, D Division 1

**Standards**
- Safety Standards:
  - Europe: EN50014, EN50020, EN50018, 94/9/EC
  - USA & Canada: UL913, CSA22.2, 152
- Operation Standards:
  - EN50270, EN50271, IEC61508, EN61779

**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, when calibration is overdue, or when service is required.

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

**Datamg**
- 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) and Gas Test Kit.

*(Specifications subject to change without notice.)*

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