

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

Gas	Range	Alarm UK and ROW	Alarm US
Flammable	0-100% LEL	20% LEL	10% LEL
Oxygen	0-25%	19.5% / 23.5%	19.5% / 23.5%
Hydrogen Sulfide	0-100 ppm	5 ppm	10 ppm
Hydrogen Sulfide	0-500 ppm	5 ppm	10 ppm
Carbon Monoxide	0-500 ppm	30 ppm	35 ppm
Carbon Monoxide	0-1500 ppm	30 ppm	35 ppm
Sulfur Dioxide	0-20 ppm	1 ppm	2 ppm
Chlorine	0-20 ppm	0.5 ppm	0.5 ppm
Chlorine Dioxide	0-1 ppm	0.1 ppm	0.1 ppm
Nitrogen Dioxide	0-20 ppm	1 ppm	3 ppm
Ammonia	0-100 ppm	25 ppm	25 ppm
Ammonia	0-1000 ppm	25 ppm	25 ppm
Ozone	0-1 ppm	0.1 ppm	0.1 ppm
Hydrogen	0-2000 ppm	N/A	N/A
Hydrogen Cyanide	0-25 ppm	4.7 ppm	4.7 ppm
Hydrogen Fluoride	0-10 ppm	5 ppm	5 ppm
Phosphine	0-5 ppm	0.2 ppm	0.2 ppm
Fluorine	0-1 ppm	0.1 ppm	0.1 ppm
Ethylene Oxide	0-10 ppm	5 ppm	5 ppm
Nitric Oxide	0-100 ppm	25 ppm	50 ppm
Phosgene	0-1 ppm	0.1 ppm	0.1 ppm
Carbon Dioxide	0-5%	0.5%	0.5%

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 95 dBA
Multiple alarm sounds allow selection of distinctive tones for different alarm levels.

Visible Alarms Dual color 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, 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.

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

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 IIC T4 (Tamb -20°C to +65°C)
Toxic Oxygen

ATEX II 2G EEx iad IIC T4 (Tamb -20°C to +65°C)
Flammable

USA/Canada Class 1 Groups A, B, C, D Division 1

Standards

Safety
Europe EN50014, EN50020, EN50018, 94/9/EC
USA & Canada UL913, CSA22.2, 152

Operation EN50270, EN50271, IEC61508, EN61779
Software designed to meet IEC61508

Ingress Protection IP65 and IP67

PC Interface RS232 connection from Interface module in charger.
RS232/USB convertor 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) and Gas Test Kit.

(Specifications subject to change without notice.)



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