

# 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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## GASMAN PRICE LIST

These personal single gas monitors feature a large high contrast LCD, rugged impact resistant construction, IP65 compliance for dust and water resistance, easy to use single button operation, and are offered for a wide range of gases. Designed for use in the toughest environments, Gasman gives an unbeatable combination of powerfully loud and bright audio, visual, and vibrating alarms within a stunningly compact, lightweight design. Each unit comes with calibration flow cap, alligator clip, instruction manual, and internal data and event logging as standard.

Gasman Flammable, Gasman CO<sub>2</sub>, and Gasman EtO versions are only supplied with rechargeable batteries. All other versions are supplied with non-rechargeable batteries unless rechargeable types are specified when ordered.

Part #	Description	Battery Type	Price
GSR-01-NC-Z	0-100% LEL Flammable Gases calibrated to Methane ** (or Propane, Pentane, Butane, Ethylene, Hydrogen)	Rechargeable	\$ 516.00
GSR-02-NC-Z	0-25% volume Oxygen	Rechargeable	\$ 404.00
GSA-02-NC-Z	0-25% volume Oxygen	Non-Rechargeable	\$ 404.00
GSR-03-NC-Z	0-500 ppm Carbon Monoxide	Rechargeable	\$ 404.00
GSA-03-NC-Z	0-500 ppm Carbon Monoxide	Non-Rechargeable	\$ 404.00
GSR-04-NC-Z	0-100 ppm Hydrogen Sulfide	Rechargeable	\$ 404.00
GSA-04-NC-Z	0-100 ppm Hydrogen Sulfide	Non-Rechargeable	\$ 404.00
GSR-05-NC-Z	0-5% volume Carbon Dioxide (Infrared Safe Areas)	Rechargeable	\$ 750.00

Gasman Model	Code	Description	Price
Gasman NH <sub>3</sub>	AR	0-100 ppm Ammonia	\$ 759.00
Gasman NH <sub>3</sub> HI	AS	0-1000 ppm Ammonia	\$ 759.00
Gasman CO HI	BI	0-1500 ppm Carbon Monoxide	\$ 330.00
Gasman CO H <sub>2</sub>	AH <sub>2</sub>	0-500 ppm Carbon Monoxide (H <sub>2</sub> Filtered)	\$ 480.00
<b>Gasman CL<sub>2</sub></b>	AN	<b>0-20 ppm Chlorine *</b>	<b>\$ 605.00</b>
<b>Gasman ClO<sub>2</sub></b>	CK	<b>0-1 ppm Chlorine Dioxide *</b>	<b>\$ 913.00</b>
Gasman ETO	CI	0-10 ppm Ethylene Oxide (Rechargeable Battery only)	\$ 616.00
<b>Gasman F<sub>2</sub></b>	AU	<b>0-1 ppm Fluorine *</b>	<b>\$ 868.00</b>
Gasman H <sub>2</sub>	AK	0-2000 ppm Hydrogen	\$ 645.00
<b>Gasman HF</b>	AV	<b>0-10 ppm Hydrogen Fluoride *</b>	<b>\$ 977.00</b>
Gasman HCN	AQ	0-25 ppm Hydrogen Cyanide	\$ 675.00
Gasman H <sub>2</sub> S HI	BG	0-500 ppm Hydrogen Sulfide	\$ 404.00
<b>Gasman NO<sub>2</sub></b>	AL	<b>0-20 ppm Nitrogen Dioxide *</b>	<b>\$ 652.00</b>
Gasman NO	CQ	0-100 ppm Nitric Oxide	\$ 598.00
<b>Gasman O<sub>3</sub></b>	AP	<b>0-1 ppm Ozone *</b>	<b>\$ 806.00</b>
<b>Gasman COCl<sub>2</sub></b>	BB	<b>0-1 ppm Phosgene *</b>	<b>\$1110.00</b>
<b>Gasman PH<sub>3</sub></b>	AT	<b>0-5 ppm Phosphine *</b>	<b>\$ 743.00</b>
Gasman SO <sub>2</sub>	AJ	0-20 ppm Sulfur Dioxide	\$ 617.00

\* Readily absorbed gases that will not be detected if an aspirator or hose are used.

\*\* Flammable gas units come calibrated to Methane unless another gas is specified

The Part # for all Gasman Models with a 'Code' are set up as follows: **GS-XX-Y**

**GS** will always equal Gasman

**XX** = the 'Code' of the gas sensor and range description (ie: AR = 0-100 ppm Ammonia, AN = 0-1 ppm Ozone)

**Y** = A for rechargeable battery or B for non-rechargeable battery. All rechargeable units require a battery charger.

To add a battery charger with a rechargeable unit, add a /C after the part number and add \$ 75.00 to the price.

Example: GS-AR-A/C is a Gasman 0-100 ppm Ammonia, rechargeable with battery charger for \$759.00 + \$75.00 = \$834.00



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## Gasman Accessories

Part #	Description	Price
C03334	Torx T6 tool for star headed screw	\$ 13.00
C02132	Gasman External Filter	\$ 15.00
M04851	Flow cap (comes with instrument)	\$ 22.00
C01937	Aspirator assembly w/bulb, cap & 2 yards hose	\$ 73.00
C01952	Harness plate – use with the shoulder strap or chest harness straps	\$ 23.00
C01843	Shoulder strap	\$ 18.00
C01844	Chest harness strap kit – consists of two straps	\$ 26.00
C011304	Chest harness kit (harness plate and 2 straps)	\$ 49.00
C01983	Leather Carry Case – either wear on belt or use with shoulder strap	\$ 55.00
C01953	Hard hat clip	\$ 30.00

*Calibration kits & test gases are available upon request.*

## Gasman Battery Chargers / Interfaces

Part #	Description	Price
C01941	Single way charger 12Vdc input	\$ 55.00
C011318	Single way charger with multi-region power supply	\$ 84.00
C011011	Single way charger 230V in-line p.s., no plug	\$ 100.00
C01945	Single way charger 90-260V in-line power supply	\$ 226.00
C01296	Charging lead for vehicle lighter socket lead	\$ 32.00
C01940	Single way charger/interface 12Vdc input	\$ 144.00
C011305	Charger interface kit (includes single way charger/interface and PC lead, multi-region power supply)	\$ 264.00
C011319	Single way charger/interface w/ multi-region p.s.	\$ 168.00
C01947	Single way charger/interface with 230V UK p.s. (replaced by C011319 once stock is depleted)	\$ 168.00
C01948	Single way charger/interface with 230V European p.s. (replaced by C011319 once stock is depleted)	\$ 168.00
C011012	Single way charger/interface 230V in-line power supply, no plug	\$ 201.00
C011010	Single way charger/interface 110V in-line power supply, no plug	\$ 201.00
C01950	Single way charger/interface with 90-260V in-line power supply	\$ 201.00
C01951	5-way multi-way charger without power supply	\$ 300.00
C011041	5-way multi-way charger with 90-260V in-line power supply, US p.s.	\$ 412.00
C011042	5-way multi-way charger with 90-260V in-line power supply, UK p.s.	\$ 412.00
C011043	5-way multi-way charger with 90-260V in-line power supply, EU p.s.	\$ 412.00

## Gasman PC Interface

Part #	Description	Price
E07532	PC lead (9 way D, female to female)	\$ 40.00
C01832	Portables PC software CD	\$ 85.00
C02097	USB to RS232 adaptor	\$ 55.00

## Gasman Charger Power Supplies

Part #	Description	Price
C03580	Multi-region p.s. (includes UK, EU, US, and Australian plug adapters)	\$ 46.00
E01552	Power supply for charger 230V no plug	\$ 55.00
E01553	Power supply for charger 110V no plug	\$ 55.00
E07693	Power supply for multi-way charger 90-260V	\$ 139.00



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## Gasman i-module Sensor Assemblies

Part #	Description	Price
S011424/M	0-100% LEL Methane	\$ 208.00
S011436/M	0-100% LEL Propane	\$ 208.00
S011437/M	0-100% LEL Pentane	\$ 208.00
S011439/M	0-100% LEL Butane	\$ 208.00
S011440/M	0-100% LEL Ethylene	\$ 208.00
S011460/M	0-100% LEL Hydrogen	\$ 208.00
S011741/M	0-100% LEL other calibration, FL (unfiltered)	\$ 208.00
S011423/M	0-25% Oxygen	\$ 138.00
S011422/M	0-500 ppm Carbon Monoxide	\$ 200.00
S011463/M	0-1500 ppm Carbon Monoxide	\$ 200.00
S012297/M	0-500 ppm Carbon Monoxide (H2 filtered)	\$ 231.00
S011421/M	0-100 ppm Hydrogen Sulfide	\$ 200.00
S011912/M	0-500 ppm Hydrogen Sulfide	\$ 200.00
S011435/M	0-100 ppm Ammonia	\$ 566.00
S011438/M	0-1000 ppm Ammonia	\$ 566.00
S012171/M	0-5% volume Carbon Dioxide IR (uncertified safe area only)	\$ 433.00
S011428/M	<b>0-20 ppm Chlorine *</b>	\$ 300.00
S011995/M	0-1 ppm Chlorine Dioxide	\$ 759.00
S011994/M	0-10 ppm Ethylene Oxide	\$ 383.00
S011433/M	<b>0-10 ppm Hydrogen Fluoride *</b>	\$ 759.00
S011434/M	<b>0-1 ppm Fluorine *</b>	\$ 759.00
S011429/M	0-2000 ppm Hydrogen	\$ 470.00
S011430/M	0-25 ppm Hydrogen Cyanide	\$ 460.00
S011426/M	<b>0-10 ppm Nitrogen Dioxide *</b>	\$ 388.00
S011852/M	0-100 ppm Nitric Oxide	\$ 323.00
S011432/M	<b>0-1 ppm Ozone *</b> (includes Ozone specific flow plate)	\$ 663.00
S011464/M	<b>0-1 ppm Phosgene *</b>	\$ 759.00
S011431/M	<b>0-5 ppm Phosphine *</b>	\$ 454.00
S011425/M	0-20 ppm Sulfur Dioxide	\$ 343.00

\* Readily absorbed gases that will not be detected if an aspirator or hose are used.

## Gasman Spares

Part #	Description	Price
C011303	Gasman battery tray assembly (inc. battery and tray)	\$ 32.00
C01873	Gas test kit magnet (replaces C01697 Crow mag key)	\$ 43.00
E01873	Gasman LCD	\$ 18.00
E01918	Disposable battery (minimum order quantity 5)	\$ 13.00
E07620	LCD elastomer (minimum order quantity 5)	\$ 7.00
E07621	i-module elastomer (minimum order quantity 5)	\$ 7.00
E07649	Charger elastomer – rechargeable version only (minimum order quantity 5)	\$ 15.00
M02362	SS alligator clip	\$ 15.00
M03705	Clip retaining nut M3 (minimum order quantity 10)	\$ 3.00
M03793	Case screw (minimum order quantity 20)	\$ 5.00
M04682	Sensor sealing ring (minimum order quantity 5)	\$ 7.00
M04839	i-module elastomer support (minimum order quantity 5)	\$ 7.00
M04852	Flow cap gasket	\$ 7.00
M04855	Front molding	\$ 12.00
M04858	Sounder seal (minimum order quantity 10)	\$ 5.00
M04973	Gasman front and rear molding set – CO2 IR specific	\$ 86.00
M05910	Crowcon domed label (minimum order quantity 8)	\$ 7.00
M07631	Gasman American manual	\$ 18.00
S011760/2	Main PCB non-rechargeable	\$ 307.00
S011761/2	Main PCB rechargeable	\$ 307.00
S011818/1	Rear molding assembly	\$ 25.00
SM1035	Sounder	\$ 21.00