

PERSONAL MINI-GAS DETECTOR

NEW 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



New 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, New 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, New Gasman is the ideal choice for personal monitoring in demanding industrial environments.



CEA Instruments, Inc.

"EXPERTS IN TOXIC GAS DETECTION"

NEW 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	0-50 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	0-10 ppm	1 ppm	2 ppm
Chlorine	0-20 ppm	0.5 ppm	0.5 ppm
Chlorine Dioxide	0-20 ppm	0.1 ppm	0.1 ppm
Nitrogen Dioxide	0-10 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	0-1000 ppm	N/A	N/A
Hydrogen Chloride	0-10 ppm	1 ppm	1 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.

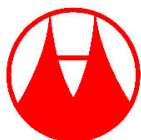
Optional PC interface module within the single way charger.

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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NEW GASMAN PRICE LIST

Each unit features a large high contrast LCD, internal datalogging, and comes with calibration flow cap, Alligator Clip, instruction manual and audible, visual and vibrating alarms. Flammable (LEL) Gasman versions are supplied with rechargeable batteries and require a Gasman battery charger. All other versions are supplied with disposable batteries unless rechargeable batteries are specified at time of order and would require a Gasman battery charger.

Part #	Code	Description	Price
Gasman OX	AG	0-25% volume Oxygen	\$ 330.00
Gasman CO	AH	0-500 ppm Carbon Monoxide	\$ 330.00
Gasman CO HI	BI	0-1500 ppm Carbon Monoxide	\$ 330.00
Gasman H2S	AI	0-100 ppm Hydrogen Sulfide	\$ 330.00
Gasman H2S HI	BG	0-500 ppm Hydrogen Sulfide	\$ 330.00
Gasman CH4	AA	0-100% LEL Methane	\$ 499.00
Gasman C3H8	AB	0-100% LEL Propane	\$ 499.00
Gasman C5H12	AC	0-100% LEL Pentane	\$ 499.00
Gasman C4H10	AD	0-100% LEL Butane	\$ 499.00
Gasman C2H4	AE	0-100% LEL Ethylene	\$ 499.00
Gasman FL H2	AF	0-100% LEL Hydrogen	\$ 499.00
Gasman CL2	AN	0-20 ppm Chlorine *	\$ 605.00
Gasman CLO2	CK	0-20 ppm Chlorine Dioxide *	\$ 605.00
Gasman ETO	CI	0-10 ppm Ethylene Oxide	\$ 510.00
Gasman F2	AU	0-1 ppm Fluorine *	\$ 870.00
Gasman H2	AK	0-1000 ppm Hydrogen	\$ 510.00
Gasman HCL	BA	0-10 ppm Hydrogen Chloride *	\$ 870.00
Gasman HF	AV	0-10 ppm Hydrogen Fluoride *	\$ 870.00
Gasman NH3	AR	0-100 ppm Ammonia	\$ 605.00
Gasman NH3 HI	AS	0-1000 ppm Ammonia	\$ 605.00
Gasman NO	CQ	0-100 ppm Nitric Oxide	\$ 510.00
Gasman NO2	AL	0-10 ppm Nitrogen Dioxide *	\$ 510.00
Gasman O3	AP	0-1 ppm Ozone *	\$ 605.00
Gasman PH3	AT	0-5 ppm Phosphine *	\$ 510.00
Gasman SO2	AJ	0-20 ppm Sulfur Dioxide	\$ 510.00
Gasman COCl2	BB	0-1 ppm Phosgene *	\$ 950.00
Gasman CO2	HG	0-5% volume Carbon Dioxide (Infrared)	\$ 800.00

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

Part Numbers are set up as follows: **GS-XX-Y-ZZZ-G**

Where GS always equals Gasman

Where XX equals the gas type description (ie: AA = Methane, AG = Oxygen)

Where Y = A for rechargeable battery or B for non rechargeable battery

Where ZZZ = 001 for ATEX approval or 012 for CSA approval

Where G always equals Alligator grip clip

Example: GS-AG-A-012-G This is for a Gasman/O2/rechargeable battery/CSA approval/Alligator grip clip

New Gasman Accessories

C03334	Torx T6 tool for star headed screw	\$ 11.00
M02362	Alligator clip	\$ 13.00
M04851	Flow cap (comes with instrument)	\$ 22.00
C01937	Aspirator assembly w/bulb, cap & 2 yd hose	\$ 66.00
C01952	Harness plate	\$ 38.50
C01843	Shoulder strap	\$ 18.00
C01844	Chest harness straps	\$ 24.00
C01953	Hard hat strap	\$ 21.00
C01983	Leather Carry Case	\$ 64.00
C01697	CROWMAG Key	\$ 29.00
GS COMMS	PC Interface w/ 110 VAC power, 9 Pin Cable, and PC Software	\$ 225.00

Calibration kits & test gases are available upon request.



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Part #	Description	Price
New Gasman Battery Chargers / Interfaces		
C01941	Single way charger - 12V DC input	\$ 49.50
C01942	Single way charger - with 230V UK power supply	\$ 121.00
C01943	Single way charger - with 230V European power supply	\$ 121.00
C01944	Single way charger - with 110V US power supply	\$ 77.00
C01945	Single way charger - with 90-260V in-line power supply	\$ 99.00
C01296	Charging lead for vehicle lighter socket lead	\$ 36.00
C01940	Single way charger/PC interface - 12V DC input	\$ 77.00
C01947	Single way charger/PC interface - with 230V UK power supply	\$ 148.50
C01948	Single way charger/PC interface - with 230V European power supply	\$ 148.50
C01949	Single way charger/PC interface - with 110V US power supply	\$ 132.00
C01950	Single way charger/PC interface - with 90-260V in-line power supply	\$ 154.00
C01832	PC software	\$ 55.00
C011041	5-way multicharger - with 90-260V in-line power supply	\$ 357.50
C02097	USB to RS232 adaptor	\$ 55.00
E07532	9-9 pin cable to connect PC interface to computer *must order with C01949	\$ 49.50
New Gasman Charger Power Supplies		
E01535	Power supply for charger 230V for UK only	\$ 55.00
E01536	Power supply for charger 230V for Europe only	\$ 55.00
E01537	Power supply for charger 110V for US only	\$ 60.00
C01979	Power supply for universal charger 90-260V	\$ 50.55
New Gasman i-module Sensor Assemblies		
S011423/M	0-25% Oxygen	\$ 120.00
S011422/M	0-500 ppm Carbon Monoxide	\$ 167.00
S011463/M	0-1500 ppm Carbon Monoxide	\$ 167.00
S011421/M	0-100 ppm Hydrogen Sulfide	\$ 167.00
S011912/M	0-500 ppm Hydrogen Sulfide	\$ 167.00
S011424/M	0-100% LEL Methane	\$ 178.00
S011436/M	0-100% LEL Propane	\$ 178.00
S011437/M	0-100% LEL Pentane	\$ 178.00
S011439/M	0-100% LEL Butane	\$ 178.00
S011440/M	0-100% LEL Ethylene	\$ 178.00
S011460/M	0-100% LEL Hydrogen	\$ 178.00
S011741/M	0-100% LEL Flammable (use for Alcohols, Ketones, General Solvents)	\$ 190.00
S011428/M	0-20 ppm Chlorine *	\$ 263.00
S011851/M	0-10 ppm Ethylene Oxide	\$ 300.00
S011434/M	0-1 ppm Fluorine *	\$ 416.00
S011429/M	0-1000 ppm Hydrogen	\$ 416.00
S011850/M	0-10 ppm Hydrogen Chloride *	\$ 394.00
S011430/M	0-25 ppm Hydrogen Cyanide	\$ 394.00
S011433/M	0-10 ppm Hydrogen Fluoride *	\$ 665.00
S011435/M	0-50 ppm Ammonia	\$ 503.00
S011438/M	0-1000 ppm Ammonia	\$ 503.00
S011852/M	0-100 ppm Nitric Oxide	\$ 300.00
S011426/M	0-10 ppm Nitrogen Dioxide *	\$ 300.00
S011432/M	0-1 ppm Ozone *	\$ 500.00
S011431/M	0-2 ppm Phosphine *	\$ 300.00
S011464/M	0-1 ppm Phosgene *	\$ 500.00
S011425/M	0-20 ppm Sulfur Dioxide	\$ 300.00
S012009	0-5% volume Carbon Dioxide	\$ 350.00

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New Gasman Spares

Part #	Description	Price
M04856	Rear molding	\$ 11.00
M04855	Front molding	\$ 2.00
C03329	Metal clip	\$ 4.50
M03705	Clip retaining nut M3 (minimum order 5)	\$ 1.00 EACH
E01879	Disposable battery	\$ 6.50
E01881	Li-ion rechargeable battery	\$ 23.00
E07621	i-module elastomer (minimum order 5)	\$ 1.90 EACH
E07620	LCD elastomer (minimum order 5)	\$ 1.90 EACH
E07641	Charger contact elastomer	\$ 9.30
M04682	Sensor sealing ring (minimum order 5)	\$ 3.50 EACH
SM1035	Sounder	\$ 18.50
M04858	Sounder seal (minimum order 5)	\$ 1.00 EACH
M03793	Case screw (minimum order 5)	\$ 1.00 EACH
M05910	Crowcon domed label	\$ 1.90
M05913	Gas Type label LEL	\$ 2.80
M05914	Gas Type label LIE	\$ 2.80
M05915	Gas Type label UEG	\$ 2.80
M05916	Gas Type label OX	\$ 2.80
M05917	Gas Type label H2S	\$ 2.80
M05918	Gas Type label CO	\$ 2.80
M05919	Gas Type label SO2	\$ 2.80
M05920	Gas Type label CL2	\$ 2.80
M05921	Gas Type label NH3	\$ 2.80
M05922	Gas Type label O3	\$ 2.80
M05923	Gas Type label NO2	\$ 2.80
M05924	Gas Type label HCN	\$ 2.80
M05925	Gas Type label F2	\$ 2.80
M05926	Gas Type label HF	\$ 2.80
M05927	Gas Type label PH3	\$ 2.80
M05928	Gas Type label NO	\$ 2.80
M05929	Gas Type label HCL	\$ 2.80
M05930	Gas Type label ETO	\$ 2.80
M05931	Gas Type label TOX	\$ 2.80