SENSITRON
A Halma Company

GASMAN
Datasheet

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Datasheet

Gasman

Personal Single Gas Monitor

H2S

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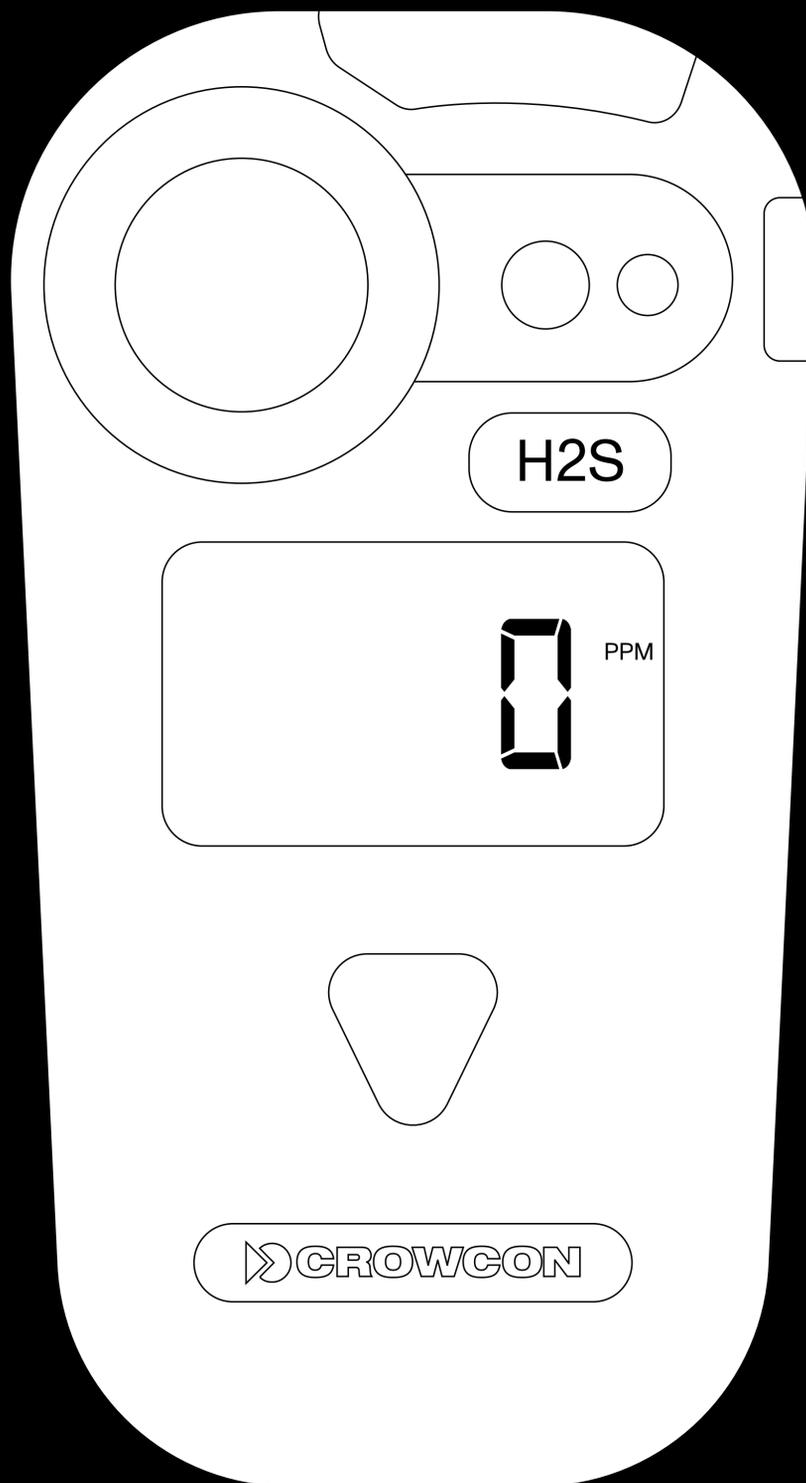
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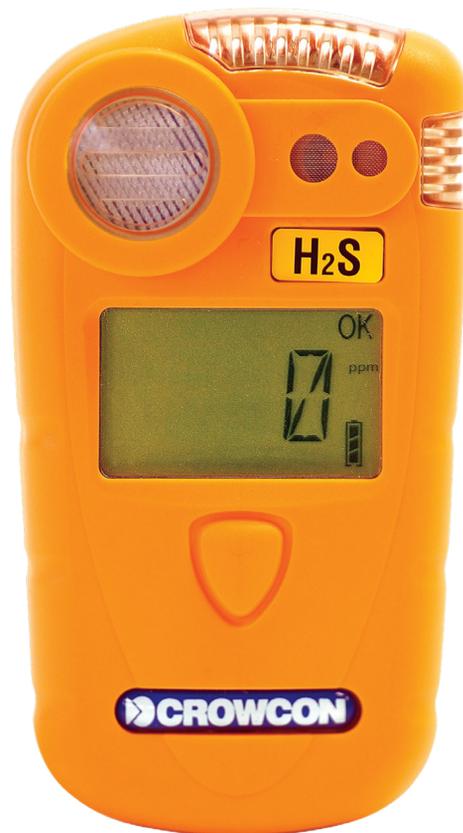
GASMAN - PERSONAL RECHARGEABLE SINGLE GAS MONITOR

Gasman is a rugged, compact single gas personal monitor designed for use in the toughest environments.

With impact resistant construction and compliance to IP65, Gasman offers a wide range of gases, including six flammable calibration options. Gasman gives an unbeatable combination of powerful loud and bright alarms. It's stunningly compact and lightweight design makes it ideal for use in industries such as oil and gas, chemical, steel works and waste and water works.

Robust	
Tough polycarbonate housing	Protects you in the harshest environments
Water and dust resistant to IP65	
Full overmoulding	High impact resistance
Effective warning	
2 levels of instantaneous alarm and TWA alarms for toxic versions	Ensures prompt evacuation from hazardous zone
95dB audible alarm	
Vivid twin red/blue visual alarm	If ambient noise is high, Gasman still alerts you by vibrating and with the high impact blue/red LED alarms
Internal vibrating alarm	
Flexible	
Versions available for flammable gas, oxygen and toxic gases	Gas detector tailored to your requirements
Rechargeable versions for all gas types	
Non-rechargeable versions for oxygen and toxic gases	
Real time TWA and peak display options	
Fully interchangeable intelligent sensor modules	
User friendly	
One button operation	Quick and easy to use
Backlit display for gas diagnostics and operating status	Easy to read
Ultra lightweight- just 85g for toxic versions	Comfortable to wear

Next Generation of sensor innovations

Long-Life Oxygen

I	Industry's first 5-year warranty
II	Lead-free for RoHS compliance
III	Reduced sensor replacement
IV	Lower cost of ownership
V	Reduced environmental impact

MPS Flammable

I	First to market single gas personal device
II	Significant safety value add
III	5 year sensor warranty
IV	Hydrogen ready
V	True LEL multi-gas accuracy

Record

Collect data from every gas detector in your fleet

Analyse

Information in simple to use dashboards

Act

Actionable insights to save lives and prove compliance

To read more on Crowcon Connect and what it can do, please visit our website or download our Connect brochure.

Gas	Range	Typical alarms
Ammonia (NH3)	0-1000 ppm	25 ppm
Carbon monoxide (CO)	0-1500 ppm	30 ppm
Carbon dioxide (CO2)	0-5%	0,5%
Carbon monoxide (H2 filtered)	0-500 ppm	30 ppm
Chlorine (CL2)	0-20 ppm	0,3 ppm
Chlorine Dioxide (ClO2)	0-1 ppm	0-1 ppm
Ethylene Oxide (ETO)	0-10 ppm	3 ppm
Flammable True LEL (MPSTM)	0-100% LEL	20% LEL
Flammable	0-100% LEL	20% LEL
Fluorine (F2)	0-1 ppm	0.5 ppm
Hydrogen (H2)	0-2000 ppm	N/A
Hydrogen cyanide (HCN)	0-25 ppm	5 ppm
Hydrogen fluoride (HF)	0-10 ppm	1 ppm
Hydrogen sulphide (H2S)	0-250 ppm	5 ppm
Nitric oxide (NO)	0-100 ppm	25 ppm
Nitrogen dioxide (NO2)	0-20 ppm%	1 ppm
Oxygen (O2) Long-Life	0-25%	19.5%/23.5%
Oxygen (O2)	0-25%	19.5%/23.5%
Ozone (O3)	0-1 ppm	0,1 ppm
Phosphine (PH3)	0-5 ppm	0,1 ppm
Phosgene (COCl2)	0-1 ppm	0.1ppm
Sulphur dioxide (SO2)	0-20 ppm	1 ppm

Specification

Size		90x48x24mm(3.5x1.9x0.95ins)
Weight	Flammable	138g (4.9oz)
	Toxic	85g (3oz)
	Oxygen	129g (4.6oz)
	Carbon dioxide	139g (4.9oz)
Typical response times (T90)	Flammable	20s
	Toxic gas	20s
	Oxygen 10s	10s
	Oxygen (Long-Life)	10s
Alarms	Audible	95dB
		Multiple alarm options let you select distinctive tones for different alarm levels Dual colours red/ blue
	Visible	Flashing LEDs in a gas hazard
	Vibrating	Internal vibrating alarm

Specification

Display		Custom LCD with backlight and 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 modes	Normal display Display recall	Real time gas concentration levels Peak readings and TWA
Datalogging		Full timed data logging with adjustable sample rate, set to 1 min. data rate as default. 900 hours storage at 1 min. interval (54,000 logs), >4800 events
Battery	Rechargeable Non rechargeable	Lithium battery for all gas types Lithium battery for toxics and oxygen (excluding CO2)
Operating time*	Rechargeable Non rechargeable	72 hours for MPS flammable Up to 2 years
Sampling		Optional manual aspirator
Operating temperature range**		-20°C to + 65°C (-4°F to +149°F)
Humidity		5-95% RH 0 to 99% RH (O2 LL MPS)
Ingress protection		IP65
Approval codes	Europe	Toxic or O2: ATEX II 1G Ex ia db IIC T4 Ga (-20°C ≤ Ta ≤ +65°C) BASEEFA04ATEX0384 Flammable: ATEX II 2G Ex ia d IIC T4 Gb (-20°C ≤ Ta ≤ +65°C) BASEEFA04ATEX0383 Flammable (MPS): ATEX II 1G Ex ia IIC T4 Ga (-20°C ≥Ta ≥ +65°C) BASEEFA04ATEX0383
	International	Toxic or O2: IECEx Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +65°C) BAS05.0039 Flammable: Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +65°C)
	North America	CSA Class 1, Division 1, Groups A, B, C, D
Standards safety	Europe North America	EN60079-0, EN60079-11, EN60079-1, 2014/34/EU CSA22.2, Atex 2014/34/EU
Operation standards		EN50270, EN50271, IEC61508, EN61779, EN45544
PC interface		RS232 connection from 'Charger/interface' variation RS232/USB converter available
Calibration		Gasman can be routinely calibrated using Portables PC software
Accessories		Gasman is supplied with an integral alligator clip. Optional accessories: gas test kit, Gasman external filter, leather carry case, single way charger, charger interface software and communication kit (exluding PSU), 5 way multi-charger
Crowcon Connect Compatible?	Yes	

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