GAS**MAN**

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.

FEATURES

Robust
- Tough polycarbonate housing
- Water and dust resistant to IP65
- Full overmoulding

Effective Warning
- 2 levels of instantaneous alarm and TWA alarms for toxic versions
- 95dB audible alarm
- Vivid twin red/blue visual alarm
- Internal vibrating alarm

Flexible
- Versions available for flammable gas, oxygen and toxic gases
- 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
- Backlit display for gas diagnostics and operating status
- Ultra lightweight- just 85g for toxic versions

TYPICAL ALARMS & RANGES

GAS	RANGE	TYPICAL ALARMS
Ammonia (NH_3)	0-1000ppm	25ppm
Carbon monoxide (CO)	0-1500ppm	30ppm
Carbon dioxide (CO_2)	0-5%	0.5%
Carbon monoxide (H_2 filtered)	0-500ppm	30ppm
Chlorine (CL_2)	0-20ppm	0.3ppm
Chlorine Dioxide (ClO_2)	0-1ppm	0.1ppm
Ethylene Oxide (ETO)	0-10ppm	3ppm
Flammable True LEL (MPS™)	0-100% LEL	20% LEL
Flammable	0-100% LEL	20% LEL
Fluorine (F_2)	0-1ppm	0.5ppm
Hydrogen (H_2)	0-2000ppm	N/A
Hydrogen cyanide (HCN)	0-25ppm	5ppm
Hydrogen fluoride (HF)	0-10 ppm	1ppm
Hydrogen sulphide (H_2S)	0-250 ppm	5ppm
Nitric oxide (NO)	0-100 ppm	25ppm
Nitrogen dioxide (NO_2)	0-20 ppm	1ppm
Oxygen (O2) Long-Life	0-25%	19.5%/23.5%
Oxygen (O_2)	0-25%	19.5%/23.5%
Ozone (O_3)	0-1 ppm	0.1ppm
Phosphine (PH_3)	0-5 ppm	0.1ppm
Phosgene ($COCl_2$)	0-1 ppm	0.1ppm
Sulphur dioxide (SO_2)	0-20 ppm	1ppm

kdf Gas Detection Specialists

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DETECTING GAS. **SAVING LIVES.**

SPECIFICATIONS

SIZE		90 x 48 x 24 mm (3.5 x 1.9 x 0.95 ins)
WEIGHT	Flammable Toxic Oxygen Carbon dioxide	138g (4.9oz) 85g (3oz) 129g (4.6oz) 139g (4.9oz)
TYPICAL RESPONSE TIMES (T$_{90}$)	Flammable Toxic gas Oxygen Oxygen (Long-Life)	20s 20s 10s 10s
ALARMS	Audible	95dB: Multiple alarm options let you select distinctive tones for different alarm levels
	Visible	Dual colours red/ blue flashing LEDs in a gas hazard
	Vibrating	Internal vibrating alarm
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 level; 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	Lithium battery for all gas types
	Non rechargeable	Lithium battery for toxics and oxygen (excluding CO_2)
OPERATING TIME*	Rechargeable	72 hours for MPS flammable
	Non rechargeable	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 (O$_2$ LL MPS)
INGRESS PROTECTION		IP65
APPROVAL CODES	Europe	Toxic or O$_2$: 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 O$_2$: 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

*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.

**Toxic and oxygen sensors are not rated for continuous operation at high temperatures. Consulowcon if operating temperatures are likely to exceed 40°C (104°F) for extended periods.

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Locate your Regional Sales Representative at:
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kdf Gas Detection Specialists

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