

Carbon Monoxide Meter

Gasman

Single Gas Detector for Personal Protection with ATEX Approval for Flammable Gases (Ex), Oxygen (O₂) or Toxic Gases (CO, CO₂, H₂S, ...)

- freely adjustable alarm level / vibration alarm, LED alarm, beeper
- comfortable to carry all day long / can be used in Ex areas
- protection class: dust- and waterproof IP 65 / 67
- LC display with backlight
- internal calibration via keypad
- data logger function



Gas types available

Model	Gas	Meas. range	Alarm
Gasman-CL2	chlorine	0...20 ppm	0.5 ppm
Gasman-CO	carbon monoxide	0 ... 500 ppm	30 ppm
Gasman-CO2	carbon dioxide	0 ...5 vol %	0.5 u. 1.5 vol %
Gasman-FL	flammable gases	0 ... 100 % UEG	20 % UEG
Gasman-H2	hydrogen	0 ... 2.000	100 ppm
Gasman-H2S	hydrogen sulfide	0 ... 100 ppm	5 ppm
Gasman-NH3	ammonia	0 ... 100 ppm	25 ppm
Gasman-NO2	nitrogen dioxide	0 1 ppm	1 ppm
Gasman-O2	oxygen	0 ...25 vol%	19 u. 23 vol %
Gasman-O3	ozone	0 ... 1 ppm	0.1 ppm
Gasman-SO2	sulphur dioxide	0 ... 10 ppm	1 ppm



TECHNICAL SPECIFICATIONS

Response time	flammable gases 20 s, toxic gases 20 s, oxygen 10 s
Alarm	acoustic (95 dBA), visual (LED red / blue), internal vibration
Sampling	optional hand-operated bellows pump
Data protocol	capacity for 5000 events, including: switch on / off, battery level, activated / deleted alarms, peak values, passed or failed gas test, all events time-stamped
Memory	pre-set: 900 hours of storage at 1 min. intervals, storage intervals can only be changed using the software
Interface	RS-232 via module in charger, USB adaptor optional
Calibration	routinely by means of Autocalibrator II or via PC software
Display	LCD with backlight, battery level indicator, indicates when calibration and maintenance is necessary
Indication	real-time gas values, retrievable peak values and TWA
Power supply	rechargeable lithium ion battery (flammable gases, CO ₂) / non-rechargeable lithium cell (toxic gases and oxygen)
Op. conditions	-20 ... +55 °C / 0 ... 99 % RH
Approvals	ATEX II 1G EEx ia IIC T4 (ambient temp. -20 ... +55 °C) toxic gases and oxygen / ATEX II 2G EEx iad IIC T4 (oper. temp. -20 ... +55 °C) flammable gases
Norms	EN50014, EN50020, EN50018, 94/9/EC, EN50270, EN50271, EN61779 software designed to meet IEC61508

INCLUDES

Gas detector with sensor, pocket clip, battery or Li-Ion battery with charger (depending on the gas), calibration certificate, instruction manual

ITEM NO.

ITEM

K-Gasman-Cl2	chlorine detector
K-Gasman-CO	carbon monoxide detector
K-Gasman-CO2	carbon dioxide detector, with charger
K-Gasman-FL	flammable gases detector, with charger
K-Gasman-H2	hydrogen detector
K-Gasman-H2S	hydrogen sulfide detector
K-Gasman-NH3	ammonia detector
K-Gasman-NO	nitrogen monoxide detector
K-Gasman-NO2	nitrogen dioxide detector
K-Gasman-O2	oxygen detector
K-Gasman-O3	ozone detector
K-Gasman-SO2	sulphur dioxide detector
OPTIONAL ACCESSORIES	
K-LADE-G-N	230 V charger
K-LADE12V-G-N	12 V vehicle recharger cable
K-INT-G-N	230 V charger with data interface
K-SW-G-N	software for PC
K-RS232-G-N	RS-232 data cable
K-RS232-USB	adaptor RS-232 to USB interface
K-ASP-G-N	hand-operated bellows suction pump (not for O ₂ , Cl ₂ and NO ₂)
K-CAL-G-N	calibration and maintenance (e. g. every 6 months)

Carbon Monoxide Meter

GAZEX

Multi-Scale Gas Detector for Hazardous Areas (ATEX)

- optical / acoustic / vibration alarm
- up to three measurement ranges (ppm, LEL, VOL) / response time T90 ≤20 s
- 2 alarms: 20 % and 40 % LEL
- function control - self-diagnostic programme when switched on
- operating conditions -20 ... +40 °C; 15 ... 95 % RH / protection IP 67 (waterproof)
- ex protection: Ex CE INERIS 02 ATEX 0060 II 1 G EEx ia IIC T4
- norm: EN 30079-291: 2007; EN 50271



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TETRA-MINI

Multi-Gas Meter with ATEX Approval

- acoustic alarm 95 dB (A) / visual alarm: LED red and blue
- vibration alarm / single-button operation
- graphical display / rechargeable battery and charger included
- approval: ATEX II 2G EEx iad IIC T4 (T_{amb} -20 ... +55 °C), BASEEFA 03ATEX0193 EN50014, EN50020, EN50018, 94/9/EC



CROWCON
Detecting Gas. Saving Lives.

TECHNICAL SPECIFICATIONS

Model	Meas. range	Measurement principle
GAZEX-UEG	0 ... 100 % vol. LEL methane	catalytic combust. (pellistor)
GAZEX-UEG/Vol. %	0 ... 100 % LEL	LEL catalytic comb. (pellistor)
	0 ... 100 % vol.	vol thermal conductivity
GAZEX-ppm/UEG/Vol. %	0 ... 10000 ppm	ppm catalytic comb. (pellistor)
	0 ... 100 % LEL	LEL catalytic comb. (pellistor)
	0 ... 100 % vol.	vol thermal conductivity
Sample coll. / method	diffusion or hand-operated pump / continuous measurem.	
Power supply	Li-Ion rech. batt. (charging/oper. time:rech. batt.:≥15 h/4.5h)	
Display / case	LCD / ABS and elastomer	
Dimensions / weight	139 x 50 x 28.2 mm / 119 g	

INCLUDES

Gas detector for use in ex zone, charging / configuration station, crocodile clip, lithium battery, instruction manual

ITEM	ITEM
K-GAZEX-UEG	gas meter LEL
K-GAZEX-UEG/Vol. %	gas meter LEL / vol. %
K-GAZEX-ppm/UEG/Vol. %	gas meter ppm / UEG / vol. %

OPTIONAL ACCESSORIES

K-0100-050	hand-held suction device
K-0100-018	metal case type 1

TECHNICAL SPECIFICATIONS

Gas	Meas. range	Alarm		
LEL	0 ... 100 %	20 %		
O ₂	0 ... 25 %	19.5 and 23.5 %		
CO	0 ... 500 ppm	30 ppm		
H ₂ S	0 ... 100 ppm	5 ppm		
Sensor life	like Tetra (O ₂ approx. 3 years)	Resp. time	like Tetra	
Alarm	like Tetra	Display	graphical LCD	
Memory	logger / event recorder	PC Interface	IR interface	
Power supply	rechargeable lithium ion battery for min. 16 h			
Oper. conditions	-20 ... +55 °C / 0 ... 99 % RH			
Dimensions / weight	112 x 72 x 49 mm / 270 g			

INCLUDES

TETRA-MINI, rechargeable battery, charger (without PC interface), instruction manual

ITEM NO.	ITEM
K-TETRA-MINI	4-in-1 meter with charger (without RS-232 interface)

OPTIONAL ACCESSORIES

K-TETRA-ML	charger with RS-232 interface
K-TETRA-MRS	RS-232 cable for charger
K-TETRA-SW	software
K-TETRA-ASP	suction pump set
K-CAL-TETRA	calibration / maintenance (e. g. every 6 months)
K-TETRA-INT	PC interface Tetra
K-TETRA-LS	charger Tetra

Crowcon Clip Series

Gas Detector for H₂S, CO and O₂

- conforms to EMC directive 89/336/EEC
- certification UL-913 & CSA-C22.2 Nr.157 / class 1 ranges 1 & 2, groups A, B, C, D / ATEX II 1G Ex ia IIC T4 Ga / IECEx Ex ia IIC T4
- can be stored up to a maximum of 1 year before first activation
- self-diagnostic programme when switched on, every 20 hours and constant battery monitoring
- protection type IP 66 / IP 67



TECHNICAL SPECIFICATIONS

Gas	Meas. range sensor	Alarm 1	Alarm 2
H ₂ S	0 ... 100 ppm	5 ppm	10 ppm
CO	0 ... 300 ppm	30 ppm	100 ppm
O ₂	0 ... 30 % vol.	19 % vol.	23.5 % vol.
Operating time	24 months continuous operation at max. 4 min daily alarm time		
Display	LCD; remaining op. time indic., gas level and further information		
Alarm indication	visual: LED / acoustic: 95 dB / haptic: vibration		
Power supply	internal battery		
Operating cond.	H ₂ S: -40 ... +50 °C; 5 ... 95 % RH / CO: -40 ... +50 °C; 5 ... 95 % RH / O ₂ : -35 ... +50 °C; 5 ... 95 % RH		
Dimens. / weight	81 x 50 x 28 mm / 76 g		

INCLUDES

Gas detector, instruction manual

ITEM NO.	ITEM
K-CC-H-5	Crowcon Clip H ₂ S 5 / 10 ppm
K-CC-C-30	Crowcon Clip CO 30 / 100 ppm
K-CC-O-19,5	Crowcon Clip O ₂ 19.5 / 23.5 ppm

OPTIONAL ACCESSORIES

K-IR-LINK to change configuration of gas detector via PC

Gaseeker

Device for Release Meas. (ATEX II 2G, EEx ib d IIC T4)

- compact and portable device / large display
- CH₄: 0 ... 100 % LEL and 0 ... 100 % vol.
- oxygen O₂: 0 ... 25 % vol.
- integrated gas suction pump
- rechargeable battery for up to 10 hours of operation, low battery indicator



TECHNICAL SPECIFICATIONS

Measuring variables	Measurement range	Alarm limit
Flammable gas CH ₄	0 ... 100 % LEL & % vol.	optional
Oxygen O ₂	0 ... 25 %	optional
Response time	methane 10 s, oxygen 10 s	
Sensor life	flammable gases 3 years oxygen 2 years	
Pump	electrical, for suction of gases	
Alarm	acoustic 85 dB (A) & visual via LEDs	
Power supply	rechargeable NiMH battery (8 ... 10 h of operation)	
Dimensions	118 x 167 x 73 mm	
Weight	900 g	

INCLUDES

Gaseeker with sensor, carrying bag, charger, suction moisture trap, 1m suction hose, instruction manual

ITEM NO.	ITEM
K-Gaseeker	Gaseeker - complete set

OPTIONAL ACCESSORIES

K-GSK-CAL	calibration certificate
K-S011375	additional sensor 0 ... 100 % LEL
K-S01423	additional sensor 0 ... 100 % vol.
K-S011371	additional sensor for oxygen, O ₂

Xgard

Gas Analysers (with ATEX Approval) for Flammable Gases (EX), Oxygen and Toxic Gases for Fixed Installation

- Xgard-Type 1 : without display, inherently safe, for EX zones 0, 1 and 2
- Xgard Type 5 : without display, for EX zones 1 and 2
- TXgard-IS+ : with display, inherently safe, for EX zones 0, 1 and 2
- TXgard-Plus : with display, intergrated alarm relays, for EX zones 1 and 2



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TECHNICAL SPECIFICATIONS

Detector	Xgard-Type 1	Xgard-Type 5	TXgard-IS+	TXgard-Plus
Meas. range / type of gas	0 ... 25 % vol. / O ₂ 0 ... 2000 ppm / H ₂ 0 ... 250 ppm / CO	0 ... 100 % LEL flammable gases (methane, propane, butane, pentane, LPG, ethanol, ethylene, hydrogen)	0 ... 25 % vol. / O ₂ 0 ... 500 ppm / CO 0 ... 50 ppm / H ₂ S	0 ... 25 vol % / O ₂ 0 ... 50 ppm / H ₂ S 0 ... 500 ppm / CO
EX zone	0, 1, 2	1, 2	0, 1, 2	1, 2
Display	---	---	included	included
Signal output	2 wires (4 ... 20 mA)	3 wires (4 ... 20 mA)	2 wires (4 ... 20 mA)	3 wires (4 ... 20 mA)
Alarm relay	---	---	---	included
Power supply	8 ... 30 V dc (24 mA)	8 ... 30 V dc (24 mA)	11 ... 30 V dc (4 ... 20 mA)	10 ... 30 V dc (210 mA)
Operating conditions	-20 ... +50 °C	-40 ... +55 °C	-20 ... +50 °C	-10 ... +55 °C
Weight	approx. 1 kg	approx. 1 kg	0.7 kg	2.2 kg

Other gases and measurement ranges on request!

INCLUDES

TXgard or Xgard with sensor, calibration certificate, instruction manual

ITEM NO. ITEM

K-Xgard-1-O2	type 1, oxygen 25 % vol.
K-Xgard-1-H2	type 1, hydrogen (2000 ppm)
K-Xgard-1-CO	type 1, carbon monoxide (250 ppm)
K-Xgard-5-CH	type 5, flammable gases (select gas)
TXgard-IS+O2	type IS, oxygen (25 % vol.), with display
TXgard-IS+CO	type IS, carbon monoxide (500 ppm), with display
TXgard-IS+H2S	type IS, hydrogen sulphide (50 ppm), with display

ITEM NO. ITEM

K-TXgard-Plus-O2	Type Plus, oxygen (0 ... 25 % vol.), alarm relay
K-TXgard-Plus-H2S	Type Plus, hydrogen sulphide (50 ppm), alarm relay
K-TXgard-Plus-CO	Type Plus, carbon monoxide (500 ppm), alarm relay

OPTIONAL ACCESSORIES

K-TX-CAL	recalibration (e. g. every six months)
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⚠ Find the right gas detection centre on the left