

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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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)
GAZEX-ppm/UEG/Vol.%	0 ... 100 % vol.	vol thermal conductivity
	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

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



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 _x	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
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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

PCE-AC 4000

Large CO₂ Display up to 5000 ppm

- display in A4 format
- simultaneous indication of CO₂, temperature and RH
- adjustable acoustic alarm
- temperature units °C and °F
- status displayed via coloured LED indicators (green-good / yellow-acceptable / red-bad)



TECHNICAL SPECIFICATIONS

Meas. Range CO ₂	0 ... 5000 ppm
Accuracy	±75 ppm +5 % of reading
Alarm	1000 ppm standard (adjustable)
Temp. range	0 ... +50 °C
Accuracy	±1 °C (0 ... +40 °C), otherw. ±1.5 °C
RH range	10 ... 90 % RH
Accuracy	±5 % RH (+25 °C), or ±7 % RH
Display	CO ₂ (2.3" / 56.8 mm), temperature / RH (0.8" / 20.4 mm)
Power supply	12 V / 1 A
Op. conditions	0 ... +50 °C / <80 % RH
Dimensions	approx. 300 x 210 x 50 mm

INCLUDES

Large CO₂ display, mains adaptor, case, instruction manual

ITEM NO. ITEM

K-PCE-AC 4000 large CO₂ display



IAQ Series

Indoor Air Quality Meter

- AVG, MIN / MAX functions
- NDIR sensor / measures CO₂ in real time (ppm)
- further functions of the IAQ7525**
- manual / continuous storage (intervals 1s ... 1h)
- includes LogDat2™ software and connection cable
- calculates percentage of fresh air on basis of CO₂
- measures humidity, dew point & wet bulb temp.



TECHNICAL SPECIFICATIONS

Model	IAQ7515	IAQ7525
Meas. range CO ₂	0 ... 5000 ppm	
Accuracy	±3 % of reading or ±50 ppm	
Temperature	---	0 ... +50 °C
Accuracy / Resol.	---	±0.6 °C / 0.1 °C
Air humidity	---	5 ... 95 % RH
Accuracy	---	±3 % / 0.1 % RH
Memory	---	12700 values
Power supply	4 x 1.5V AA batteries	
Op. conditions probe	-10 ... +60 °C	
Dimensions probe	integrated Ø 19 x 283 mm	
Dim. / weight of device	244 x 84 x 44 mm / 270 g	

INCLUDES

Air quality meter, calibration certificate, (IAQ7525 comes with software & data cable), instruction manual

ITEM NO. ITEM

K-IAQ7515 CO₂ meter
K-IAQ7525 CO₂ meter with memory

OPTIONAL ACCESSORIES

K-CAL-IAQ-7515 ISO calibration certificate
K-CAL-IAQ-7525 ISO calibration certificate

PCE-AC 3000

Indoor Carbon Dioxide Meter

- wide CO₂ measurement range up to 3000 ppm
- with RJ45 switched output
- 24 hours data logger function
- adjustable limit value alarm for CO₂
- can be reset to factory defaults
- acoustic alarm



TECHNICAL SPECIFICATIONS

Meas. range CO ₂	0 ... 3000 ppm
Resolution	1 ppm (at 0 ... 100 ppm) 5 ppm (at 1000 ... 2000 ppm) 10 ppm (at 2000 ... 3000 ppm)
Accuracy	±5 % of reading or ±50 ppm
Temperature	-20 ... +50 °C
Resolution	0.1 °C
Accuracy	±1% or ±1 °C
Memory	48 values
Power supply	4 x 1.5 V AA batteries or mains ad.
Op. conditions	+5 ... +50 °C
Dimensions / weight	165 x 80 x 23 mm / 600 g

INCLUDES

Air quality meter, 4 x 1.5 V AA batteries, mains adaptor, instruction manual

ITEM NO. ITEM

K-PCE-AC 3000 CO₂ meter



CDL 210

CO₂ & Climate Data Logger

- measures and displays temperature and air humidity
- acoustic signal when pre-set CO₂ value is exceeded
- simultaneous indication of CO₂, temperature and humidity
- memory: 5300 series of measurements / USB interface
- wide CO₂ measurement range of up to 2000 ppm



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TECHNICAL SPECIFICATIONS

Meas. range CO ₂	0 ... 2000 ppm / NDIR principle
Accuracy / resol.	50 ppm ±5 % / 1 ppm (0 ... 100 ppm)
Temperature	-10 ... +60 °C
Accuracy / resol.	±0.6 °C / 0.1 °C
Air humidity	5 ... 95 %
Accuracy / resol.	±3 % / 0.1 %
Display	shows all parameters at once
Memory	5300 series of measurement values
Log data / rate	up to 16000; 3 / 10 / 30 s 1 / 3 / 10 / 30 min.; 1 / 3 / 4 h
Power supply	5V ac mains adaptor / 0.5 A
Dimensions	120 x 100 x 110 mm

INCLUDES

Data logger CO₂ and climate, mains adaptor, data cable, PC software, instruction manual

ITEM NO.	ITEM
K-CDL 210	CO ₂ data logger

Note:

Manual calibration should be done on a clear day outside, e.g. on an exterior window sill where the level of CO₂ is approximately 400 ppm.

RLA 100

Gas Detection System to Detect Carbon Dioxide (CO₂)

- detects carbon dioxide (CO₂)
- 2 adjustable alarm limits
- 4-digit digital display
- continuous visual surveillance possible
- potential-free change-over contact
- integrated alarm transmitter
- can easily be mounted to a wall
- three system components



TECHNICAL SPECIFICATIONS

Gas detector	
Sample gas	carbon dioxide (CO ₂): 0 ... 50000 ppm (5 %) (vol.), NDIR sensor
Gas entry	by diffusion
Alm. contacts	1 potential-free change-over contact to control external devices (NO/NC) for alarm 1; switching capacity: 30 V dc / 250 V ac, max. 2 A
Alam limits	alarm 1: 0.5 / 1 / 1.5 / 2 % alarm 2: 1.5 / 2 / 2.5 / 3 / 3.5 / 4 %
Menu items	supervision of device connection, calibration, unit switching, alarm 1, 2 and factory settings
Display	4-digit display for concent. in range ppm; 3 digit display for concent. in range %; LEDs for operation, Alarm 1, 2 y monitoring of voltage supply
Safety	Continuous self-surveillance, sensor life-time, unplausible measurement values, EEPROM system, internal data transfer
Power supply	Adaptor 100 ... 240V AC, 50/60 Hz
Case	Plastic, IP 54, splash resistant
Op. conditions	0 ... +45 °C
Dimensions	168 x 125 x 47 mm (without connections)

Control unit

Power supply	via data cable connected to gas detector
Op. conditions	0 ... +45 °C
Menu items	Control connection between the PC measuring the gas and the gas alerter Change from °C to °F
Display	4-digit indication for content in ppm; 3-digit indication for content in %; additional indication for temperature; LEDs for operation, alarm 1 and 2 and monitoring of voltage supply
Case	aluminium, IP 54, splash proof
Dimensions	118 x 85 x 34 mm (without connections)

INCLUDES

Gas detection system, instruction manual

ITEM NO.	ITEM
K-RLA 100	gas detection system

OPTIONAL ACCESSORIES

K-CAL-RLA	ISO calibration certificate
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HFX205

Measuring Device for Formaldehyde

- short response time / real-time display
- manual and automatic data storage
- high-speed USB
- software for online data transfer
- no warm-up time necessary
- automatic backlight
- self-calibration / limit value alarm



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 5 ppm
Resolution	0.01 ppm
Accuracy	<±2 %
Sensor	electrochemical sensor
Response time	<30 s
Calibration	automatic self-calibration
Memory	up to 500 sets of data
Interface	USB
Power supply	rech. Li-Ion batt. (3.7 V / 1200 mAh) ac adaptor 100 ... 240 V to 5 V dc / 1 A
Op. conditions	+5 ... +40 °C / <90 % RH
Contin. operation	6 h with batteries
Dimens. / weight	80 x 36 x 150 mm / approx. 200 g

INCLUDES

Meas. device, rechargeab. (Li-Ion) batt., 230 V charger, USB data cable, softw., calibration cert., manual

ITEM NO.	ITEM
K-HFX205	formaldehyde measuring device

OPTIONAL ACCESSORIES

K-	measurement range up to 25 ppm
K-RHT200	humidity / temperature sensor

Gasman Ozon

Ozone meter for personal use (ATEX)

- Adjustable alarm levels; vibration alarm, LED alarm, beeper
- Can take it into Ex zone / internal security
- Dust and water resistant IP 65 / 67
- LCD screen with backlight
- Internal calibration via keypad / datalogger function



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 1 ppm (O ₃)
Alarm	0.1 ppm
Response time	20 s
Acoustic alarm	95 dBA, several alarm tones
Visual alarm	gas hazard = LED flashing red / blue
Vibration alarm	internal vibration alarm transmitter
Prot. class case	IP 65 / 67
Display	LCD with backlight
Power supply	Lithium battery
Op. conditions	-20 ... +55 °C / 0 ... 99 % RH
Dimens. / weight	90 x 48 x 24 mm / 118 g

INCLUDES

Ozone meter, pocket clip, battery, instruction manual

ITEM NO.	ITEM
K-Gasman-O3	gas / ozone meter

OPTIONAL ACCESSORIES

K-CAL-G-N	ISO calibration certificate
K-SW-G-N	software
K-RS232-G-N	RS-232 data cable
K-RS232-USB	adaptor RS-232 to USB

Tetra 5

Gas Meter for Ozone with ATEX

- ATEX II 2G EEx iad IIC T4
- acoustic & visual alarm: 90 dB (A) / red LED and vibration alarm / case IP 65 protection
- 128 x 64 pixels graphical display with backlight
- additional sensors for other gases available
- can be used in hazardous areas



TECHNICAL SPECIFICATIONS

Meas. range	0 ... 1.00 ppm (O ₃)
Alarm	0.1 ppm
Response time	10 s
Acoustic alarm	90 dB (A) at a distance of 1 m
Visual alarm	extra bright LED
Protection class	IP 65
Display	LCD, with backlight
Power supply	rech. Li ion battery (min. 12 h)
Operating conditions	-20 ... +55 °C / 0 ... 99 % RH
Dimensions	122 x 128 x 57 mm
Weight	498 g

INCLUDES

Ozone meter, rech. Li ion battery, charger, manual

ITEM NO.	ITEM
K-TETRA-5-O	gas / ozone meter

OPTIONAL ACCESSORIES

K-CAL-TETRA	ISO calibration certificate
K-TETRA-SW	software
K-TETRA-INT	interface for PC
K-TETRA-ASP	suction pump
K-TETRA-TRA	shoulder and chest carrying strap