PCE-GA3

Pen-sized flammable gas detector

This pen-sized flammable gas detector is very easy to use. It has a visual alarm LCD and an audible alarm with an intense whistle. This device is to be considered as an aid only and must only be used for small gas containers such as lighters, camping-gas containers, cookers, etc. It is not necessary to regulate it manually. It is controlled by a microprocessor that emits an alarm when there are gas concentrations of 100, 1000 and 10,000 ppm. This gas detector is exempt of maintenance except for replacement of its battery. The sensor is calibrated to detect flammable gases in the air.

Applications:
- Gas cars
- Gas heatings
- Combustion engines

Technical specifications

Natural gas	1000 to 6500 ppm
Propane	500 to 6500 ppm
Sensor	catalytic sensor
Alarms	display LED
Power	2 AAA batteries (Mignon cell)
Dimensions	Ø 21 x 180 mm
Weight	46 g

Contents
PCE-GA3 pen-sized gas detector, batteries and user's manual

Model No.	Description
PCE-GA3	Pen-size flammable gas detector

PCE-LD 1

Leak detector for refrigerant gases R22, R134a, R410A, R407C...

The PCE-LD 1 leak detector is advanced technology for detecting leaks of refrigerant gases that detects all gases based on CFCs or HFCs. Thanks to its sensitivity, this leak detector can detect all leaks in refrigeration systems although other gases may be present. The device gives off acoustic and visual warnings when leaks have been detected. The sensor extension allows measurements to be taken in places that are difficult to reach.

- Easy to use
- Ideal for refrigerant gases R22, R134a, R410A, R407C, etc.
- Adjustable sensitivity
- Can be used anywhere
- Sensor in a 390mm extension
- Audible and visual alarms
- Multicolor LED display for concentration
- Adapts to concentrations that are already present
- Automatic shut-off after 10 minutes

Technical specifications

Sensitivity	adjustable (high and low)
Response time	approx. 90 seconds
Gases detected	R22, R134a, R404, R407C, R410A...
Test cycle	continuous
Length of sensor	390 mm
Power	4 AA batteries
Operating time	approx. 40 hour of normal use
Dimensions	173 x 66 x 56 mm
Weight	400 g

Contents
PCE-LD 1 leak detector with sensor, test elements, batteries, carrying case and user's manual

Model No.	Description
PCE-LD 1	Leak detector

PCE-GA 70

CO_2 detector with data logger and software

The PCE-GA 70 instrument measures carbon dioxide level, temperature and humidity in real time and includes a data logging function for 20,000 values. With the included software and the RS-232 interface you can transfer data to a PC for further analysis. It is the ideal instrument for checking ventilation rates, air changes and performing thermal comfort studies. The stable NDIR sensor guaranteed high accuracy results.

- Range up to 6,000 ppm
- Triple LCD for CO_2 , % r.h. humidity and air temperature
- Maintenance free dual wavelength NDIR infrared CO_2 sensor (non-dispersive infrared)
- Continuous or manual data logging (20,000 values)
- Data hold & maximum / minimum with time stamp
- Data Memory and READ function
- Alarm and Time setting
- RS-232 function / software included

Technical specifications

Range CO_2	0 to 6000 ppm
Resolution	1 ppm
Accuracy	±3 % of reading or ±50 ppm
Temperatur	-20 to +60 °C
Resolution	0.1 °C
Accuracy	±0.5 °C
Relative humidity	10 to 95 % r.h.
Resolution	0.1 % r.h.
Accuracy	±3 % r.h. (30 to 95 % r.h.)
Memory	20,000 values (automatic)
	99 values (manual)
Operating conditions	+5 to +50 °C / 10 to 95 % r.h.
Power	6 AA batteries (1.5 V)
Dimensions	158 x 72 x 35 mm
Weight	255 g

Contents
CO_2 detector, software, RS-232 data cable, batteries, carrying case and user's manual

Model No.	Description
PCE-GA 70	CO_2 Detector

Gasman N

ATEX
⟨Ex⟩

Personal gas detector with ATEX approval for flammable gases (Ex),
oxygen (O_2) and toxic gases (CO, CO_2, H_2S, ... etc.)

This Gasman N personal gas monitor is compact and lightweight yet designed to withstand the toughest of industrial environments. It is easy to use and it emits warnings in the case of danger caused by the presence of dangerous gases. This gas detector includes fully interchangeable i-module sensors and it is operated with one hand. The Gasman N is the most flexible gas detector that is available on the market. The Gasman N possess ingress protection IP65 and IP67 and it sets new standards for personal gas monitors for flammable gases, oxygen and toxic gases.

- Dimensions: **90 x 48 x 24 mm**
- Ultra lightweight: **90 to 130 g** (according to sensor)
- Approval codes: ATEX and UL for USA and Canada
- Continuous indicator in % LEL, vol %, ppm
- Memory for data storage
- Display with backlight: reading, peak and average values
- Multiple alarms sound using a selection of distinctive tones for different alarm levels
- Ingress protection IP65/67
- Battery types: rechargeable Li-ion battery / non rechargeable lithium cell

Technical specifications

Gas type	CH₄ flammable	O₂ oxygen	O₃ ozone	H₂S hydrogen sulphide	CO carbon monoxide	CO₂ carbon dioxide	SO₂ sulphur dioxide	Cl₂ chlorine	NO₂ nitrogen dioxide	H₂ hydrogen
Range	0 to 100 % LEL	0 to 25 vol%	0 to 1 ppm	0 to 100 ppm	0 to 500 ppm	0 to 3 vol%	0 to 10 ppm	0 to 5 ppm	0 to 10 ppm	0 to 1000 ppm
Alarm	20 % LEL	19 and 23 vol%	0.1 ppm	5 ppm	30 ppm	0,5 a. 1,5 vol%	1 ppm	0.5 ppm	1 ppm	100 ppm
Response time	flammable gases: 20 sec., toxic gases 20 sec., oxygen 10 sec.									
Audible alarm	95 dBA, multiple alarm sounds allow selection of distinctive tones for different alarm levels									
Visible alarm	dual colour 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. Calibration overdue, or service required									
Display mode	normal display for real time gas concentration levels. Display recall for Peak readings and TWA									
Protocol	5000 capacity event logging to record all instrument events including: switch on / off, battery status, alarms activate/clear, peak values, gas test pass or fail. All events are time stamped									
Datalogging (more expensive)	full timed datalogging with adjustable sample rate, set to 1 minute data rate. 900 hours storage at 1 minute interval.									
Battery types	rechargeable Li-ion battery (flammable gases) non rechargeable Lithium cell (toxic gases and oxygen)									
Operating time	rechargeable: 12 hours minimum for flammable unit non rechargeable: up to 1 year									
Sampling	optional manual aspirator									
Operating conditions	-20 to +55 °C / 0 to 99 % r.h.									
Approval codes	ATEX II 1G EEx ia IIC T4 (T amb. -20 °C to +55 °C) toxic gases and oxygen ATEX II 2G EEx iad IIC T4 (T amb -20 °C to +55 °C) flammable gases									
Standards	EN50014, EN50020, EN50018, 94/9/EC, EN50270, EN50271, EN61779 software designed to meet IEC61508									
Ingress protection	IP65 / IP67									
PC interface	RS-232 connection from interface module in charger. RS232 / USB convertor available									
Autocalibrator	Gasman can be routinely calibrated using the 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.									

Contents

Personal gas detector, pocket clip, lithium cell or batteries and user's manual

Model No.	Description
Gasman-N-CH₄	Personal CH₄ detector with accumulator (battery charger nessesary)
Gasman-N-O₂	Personal O₂ detector with battery
Gasman-N-O₃	Personal O₃ detector with battery
Gasman-N-H₂S	Personal H₂S detector with battery
Gasman-N-CO	Personal CO detector with battery
Gasman-N-CO2	Personal CO₂ detector with accumulator (battery charger nessesary)
Gasman-N-SO₂	Personal SO₂ detector with battery
Gasman-N-Cl₂	Personal Cl₂ detector with battery
Gasman-N-NO₂	Personal NO₂ detector with battery
Gasman-N-H₂	Personal H₂ detector with battery

You cannot use the manual aspirator with chlorine, nitrogen dioxide and ozone.
With the Gasman-N-CH₄ you can select the gas: methane, propane, butane etc.

Optional accessories

LADE-G-N	230 V battery charger
LADE12V-G-N	Vehicle lighter socket, 12 volt
INT-G-N	230 V battery charger with interface
SW-G-N	Software for PC PC
RS232-G-N	RS-232 interface
RS232-USB	RS-232 to USB interface adapter
ASP-G-N	Manual aspirator (Handbalg), not for ozone, chlorine and nitrogene dioxide
ESS-G-N-CH₄	CH₄ Spare sensor
ESS-G-N-O₂	O₂ Spare sensor
ESS-G-N-O₃	O₃ Spare sensor
ESS-G-N-H₂S	H₂S Spare sensor
ESS-G-N-CO	CO Spare sensor
ESS-G-N-CO2	CO₂ Spare sensor
ESS-G-N-SO₂	SO₂ Spare sensor
ESS-G-N-Cl₂	Cl₂ Spare sensor
ESS-G-N-NO₂	NO₂ Spare sensor
ESS-G-N-H₂	H₂ Spare sensor
CAL-G-N	Calibration and maintenance (e.g. every 6 months)

TETRA

ATEX Ex

Personal gas detector for the professional sector (ATEX II 2G Eex iad IIC T4)

The TETRA is a unique multigas monitor for the detection of flammable and toxic gases with an audible, visual and vibrating alarm and displays the current value. It detects up to four gases simultaneously, such as, CH4, H2S, CO and O2 (as well as other combinations of gases). Single button operation and intelligent sensor modules guarantee simplicity and flexibility of use. Data can be stored in the unit and be transmitted to a PC for later assessment (optional software and cable). The TETRA has interchangeable intelligent sensor modules which can be changed on the job, it is not necessary to recalibrate the unit each time you change a sensor module. This gas detector can be calibrated according to DIN-ISO and all international standards.

- Audible alarm: 90 dB (A)
- Visual alarm: LED red and blue
- Vibrating alarm
- Single button operation
- Intelligent sensor modules
- Hand aspirator (optional)
- Special ozone model
- Internal electric sampling pump

Technical Data (LEL = flammable gases, such as methane)

Model	TETRA-1	TETRA-2	TETRA-3	TETRA-4	TETRA-5
	(LEL & O2)	(LEL, O2 & H2S)	(LEL, CO & O2)	(LEL, O2, CO & H2S)	(O2 & O3)
Measurement ranges					
LEL	0 to 100 %	0 to 100 %	0 to 100 %	0 to 100 %	
O2 / O3	0 to 25 % / -	0 to 25 % / -	0 to 25 % / -	0 to 25 % / -	0 to 25 % / 0 to 1.00 ppm
CO	-	-	0 to 500 ppm	0 to 500 ppm	
H2S	-	0 to 100 ppm	-	0 to 100 ppm	
Alarm limits					
LEL	20 %	20 %	20 %	0 %	
O2 / O3	19.5 and 23.5% / -	19.5 and 23.5 % / -	19.5 and 23.5 %/-	19.5 and 23.5% / -	19.5 and 23.5 % / 0.1 ppm
CO	-	-	30 ppm	30 ppm	
H2S	-	5 ppm	-	5 ppm	
Sensors life	methane and other flammable gases: 5 years / toxic gases: 3 years / oxygen: minimum 2 years				
Response time	T_{90} = methane and other flammable gases: 20 sec. / toxic gases: 20 sec. / oxygen: 10 sec.				
Alarm	visual: 2 flashing red and blue LED`s; acoustic: 90 dB(A) at 1m distance; vibration				
Display	Graphic LCD (128 x 64) with backlight, battery life indicator				
Memory	event logging (e.g. when limits are exceeded)				
Interface for PC	infrared interface				
Software	yes (optional) which provides configuration control, calibration and access to data files				
Operating cond.	-20 to +55 °C and 0 to 99 % r.h.				
Power	rechargeable Li-ion battery (min. of 12 h continuous use, with internal sampling pump min. 8 h)				
Dimensions	122 x 128 x 57 mm / Weight 500 g				
Ingress protection	Ex zones, protection against water and dust, corrosion, IP 65				
Approvals	ATEX II 2G EEx iad IIC T4 (Tamb −20 to +55°C) BASEEFA 03ATEX0193 EN50014, EN50020, EN50018, 94/9/EC				

Contents
TETRA 1, 2, 3, 4 or 5, rechargeable batteries, user's manual

Model No.	Description
TETRA-1	LEL u. O2 Gas detector (with 2 alarm levels)
TETRA-2	LEL, O2 and H2S Gas detector (with 3 gas levels)
TETRA-3	LEL, CO and O2 Gas detector (with 3 gas levels)
TETRA-4	LEL, O2, CO and H2S Gas detector (with 4 gas levels)
TETRA-5	Gas detector with 2 gas levels O2 and O3
TETRA-IP	Internal electric sampling pump (not for O3)

Optional accessories
TETRA-LS	Battery charger, 230 V / 50 Hz
TETRA-ASP	Aspirator assembly
TETRA-INT	Interface for PC, RS-232, IR adaptor
TETRA-SW	Software
TETRA-ES-CH	CH4 Spare sensor
TETRA-ES-O2	O2 Spare sensor
TETRA-ES-O3	O3 Spare sensor
TETRA-ES-H2S	H2S Spare sensor
TETRA-ES-CO	CO Spare sensor
TETRA-CAL	Calibration / Maintenance (e.g. every 6 months)

Aspirator assembly

TETRA-MINI

ATEX Ex

Personal multigas detector with ATEX authorization

The Tetra-mini personal multigas detector has a rugged impact resistant design which provides extra shock and vibration protection. It has single button operation for all functions and it can even be operated with gloved hands. The reliable Lithium-ion battery provides over 16 hours of continuous operation from a single charge with no memory effects. It is designed for use in demanding industrial environments (e.g. in tunnels or buildings) and despite its compact size the Tetra Mini is ultra-rugged and waterproof.

- Audible alarm: 95 dB (A)
- Visual alarm: red and blue LED's
- Vibrating alarm
- Single buttom operation
- Graphic display
- Internal battery and charger

Technical specifications

Model	TETRA-MINI	
	(LEL, O2, CO and H2S)	
Gas	**Range**	**Alarm**
LEL	0 to 100 %	20 %
O2	0 to 25 %	19.5 and 23.5 %
CO	0 to 500 ppm	30 ppm
H2S	0 to 100 ppm	5 ppm
Sensor life	as Tetra (oxygen: minimum 3 years)	
Response time	as Tetra	
Alarm	as Tetra	
Display	graphic LCD with backlight, battery life indicator	
Memory	event logging (e.g. when limits are exceeded)	
Interface for PC	IR interface	
Software	yes (optional)	
Operating cond.	-20 to +55 °C and 0 to 99 % r.h.	
Power	rechargeable Li-ion battery (minimum of 16 hours of continuous use)	
Dimensions	112 x 72 x 49 mm / Weight 270 g	
Ingress protection	Ex zones, IP 67	
Approvals	ATEX II 2G EEx iad IIC T4 (Tamb -20 to +55°C) BASEEFA 03ATEX0193 EN50014, EN50020, EN50018, /9/EC	

Contents
TETRA-MINI, rechargeable batteries, battery charger (without RS-232 port) and user's manual

Model No.	Description
TETRA-MINI	Gas detector for 4 gases

Optional accesories
TETRA-ML	Charger and RS-232
TETRA-MRS	RS-232 interface
TETRA-SW	Software
TETRA-ASP	Aspirator assembly
TETRA-ES-CH	CH4 Spare sensor
TETRA-ES-O2X	O2 Spare sensor
TETRA-ES-HSC	H2S & CO Combi-Sensor
TETRA-CAL	Calibration / Maintenance

Gas Meters

Triple Plus+

Meter for 4 gases, with memory (ATEX I M2: EEX Ib dI, ATEX II 2G, Ex ias IIC T4)

The accuracy, solid design, memory and software, make this gas meter an impressive device for daily use in the factory or in the office. The Triple Plus+ allows connection of up to 4 sensors, which can be ordered seperately depending on yout needs. If you only required testing of two gases, then another two can be ordered if the need arises. The device shows the actual measurement value on the display and warns the user, with acoustic and visual alarms. One big advantage is its memory, which can save the readings continuously and they can later be tranferred to a computer for further evaluation.

- Suitable for use in zone Ex
- Acoustic alarm (85dB(A) at 1m) and visual with flashing LED's
- Light to indicate the function
- Large dsplay that indicates 4 gases
- Memory function / data logger for 6000 values per parameter
- All types of sensors available
- Ingress protection IP 65
- Powered by rechargeable battery

Technical specifications

Ranges	Measurement range	Alarm
Flammable gases (CH_x)	0 to 100 % LEL	20 % LEL
Oxygen (O_2)	0 to 25 %	19 % & 23 %
Hydrogen sulphide (H_2S)	0 to 50 ppm	10 ppm
Carbon monoxide (CO)	0 to 500 ppm	30 ppm
Sulfur dioxide (SO_2)	0 to 10 ppm	2 ppm
Hydrogen (H_2)	0 to 999 ppm	100 ppm
Audible alarm	audiblie 85 dB(A) and visual with LED	
Data logger	6000 data points per channel	
Power	rechargeable Ni Mh battery (min. of 12 h)	
Dimensions	118 x 167 x 73 mm	
Weight	900 g	

Contents

Triple Plus+ gas meter, rechargeable batteries, carrying strap and user's manual
Sensors and charger can be ordered seperately

Model No.	Description
Triple Plus+	Triple Plus+ without sensors

Sensors

Triple-IR-LEL	IR-Sensor. 0 ... 100 % LEL
Triple-IRD-LEL	Dual-Range, IR Sensor, 0 ... 100 % LEL and 0 ... 100 vol%
Triple-ES-O2	Oxygen sensor, O_2
Triple-ES-H2S	Hydrogen sulphide sensor, H_2S
Triple-ES-CO	Carbon monoxide Sensor, CO
Triple-ES-SO2	Sulfur dioxide sensor, SO_2
Triple-ES-H2	Hydrogen sensor, H_2

Optional accessories

Triple-IP	Internal pump (surcharge)
Triple-INT	Charger / Interface for PC
Triple-SW	Software for Triple Plus+
Triple-CAL	Recalibration (e.g. every 6 months)

Ask for sensors: NO, NO_2, NH_3, O_3, PH_3, Cl_2 etc.

Gaseeker

Gas meter for authorised measurements (ATEX II 2G, EEx ib d IIC T4))

To carry out jobs, such as welding, in installations with gas and pipes, it's important to empty them, and in some cases to flush them with nitrogen, and once the job is completed, fill the pipes with the required gas. The Gaseeker measures the concentration of flamable gases (methane) and the content of oxygen to avoid explosions. The meter automatically changes its indications from LEL to volume in %. Thankfully that the measurement range is 100% of volume, it's possible to check for gas leaks. The alarm levels can be chosen when ordering. In cases where you wish to use the Gaseeker for authorised measurements, we advise you not to set any alarm limit, because the alarms will sonstantly be going off.

- Easy-to-use and portable
- CH4: 0 to 100% LEL and 0 to 100% volume
- Oxygen O2, 0 to 25% volume
- Large display
- Integrated aspitator
- Rechargeable battery, up to 10 hours of operation, low battery indicator

Technical specifications

Ranges	Measurement range	Alarm
Flammable gases (CH_x)	0 to 100 % LEL a. vol%	optional
Oxygen (O_2)	0 to 25 %	optional
Response time	methane 10s, oxygen 10s	
Sensor life span	flammable gases 3 years oxygen 2 years	
Aspirator	electrical, for aspiration of gases	
Alarm	audible 85 dB(A) and visual LEDs	
Power	rechargeable NiMH battery (8-10 h of power)	
Dimensions	118 x 167 x 73 mm	
Weight	900 g	

Contents

Gaseeker with sensors, carrying bag, charger, water hatch for the aspiration system, 1m aspiration tube

Model No.	Discription
Gaseeker	Gaseeker with sensors

Sensors

S011375	Replacement sensor 0 to 100 % LEL
S01423	Replacement sensor 0 to 100 % vol.
S011371	Replacement oxygen sensor, O_2

Optional accessories

GSK-CAL	Recalibration (e.g. every 6 months)

CellarSafe

Fixed CO_2 detector with alarm and electrical relay

This device is mainly used in the food industry, mainly at drinks outlets. Besides CO_2 detection, this device emits an alarm when legal limits are exceeded, both a bright flashing LED and an audible alarm. You can also use the relay input to connect ventilation fans in the area being monitored. Remote repeater units are used to alert personnel in the safe area to the presence of a hazardous situation in the area being protected. The CO_2 detector is powered by 240 VAC, but you can install a battery so that the system continues working in case of a power outage.

- Easy to use and easy installation
- Dual-band infrared sensor for CO_2 (at least 5 years)
- Alarms: bright LEDs and audible alarm (82 dB)
- Relay output for ventilation fan adjustment
- Ingress protection IP 65; against dust and water
- Optional O_2 sensor
- Remote repeater with 9 m cable (alerts personnel in a safe area to the presence of a hazardous situation in the area being protected)

Technical specifications

Alarm levels	1.5 and 3.0 % CO_2 with oxygen sensor: 19.5 and 18 % of O_2
Accuracy	3 %
Resolution	0.1 %
Status indicators	2 gas level alarm LEDs red, 1 fault alarm LED yellow, 1 power LED green, 1 sounder of > 82 dB (if alarm levels are exceeded)
Display	backlight LCD (13.5 mm)
Relay outputs	2 pieces: 10A (240 VAC / 30 VDC) for ventilation fan adjustment (automatically turned on when ventilation is required)
Remote repeater	western pin and 9 m cable
Power	220 to 240 VAC, 50 to 60 Hz
Dimensions	210 x 150 x 40 mm
Weight	1300 g

Contents

CellarSafe fixed CO_2 detector, calibration certificate, remote control, 9 m cable and user's manual

Model No.	Description
99F38006	CellarSafe I Standard
99F38007	CellarSafe II with battery (for emergency power supply)
99F38008	CellarSafe III and oxygen sensor
99F38005	CellarSafe IV with oxygen sensor and emergency battery

Optional accessories

CAL-CS	Recalibration of sensors (e.g. every 6 months)

Remote fixed gas detectors

ATEX
Ex

Fixed gas detectors with ATEX authorization for flammable gases (EX), oxygen and toxic gases

Xgard, TCgard, TXgard and Flamgard gas detectors
The Xgard, TCgard, TXgard and Flamgard Series are available for a wide range of applications for the detection of toxic and flammable gases, such as the potentila for lack of oxygen in the industrial sector or in shipping.

- Xgard tipo 1 y TXgard IS : without display, for own safety, EX 0, 1 and 2 zones
- Xgard tipo 5 : without display, for EX 1 and 2 zones
- Xgard IR : without display, longlife infrared sensors, EX 1 and 2 zones
- TCgard : without display, for EX 1 and 2 zones
- TXgard IS+ : with display, for own safety, EX 0, 1and 2 zones
- TXgard Plus and Flammgard Plus : with display, relay for alarm integrated, for EX 1 and 2 zones

Technical specifications

Detector	Xgard type 1	Xgard type 5	Xgard IR	TCgard	TXgard IS+	TXgard Plus	Flamgard Plus
EX zone	0, 1, 2	1, 2	1, 2	1, 2	0, 1, 2	1, 2	1, 2
Display	-	-	-	-	sí	sí	sí
Output signal	2 leads 4 to 20 mA	3 leads 4 to 20 mA	3 leads 4 to 20 mA	3 leads 4 to 20 mA	2 leads 4 to 20 mA	3 leads 4 to 20 mA	3 conductores 4 to 20 mA
Relay for alarm	-	-	-		-	yes	yes
Power	8 to 30V DC 24 mA	8 to 30V DC 24 mA	10 to 30V DC 50 mA	10 to 30V DC 24 mA	11 to 30V DC 4 ... 20 mA	10 to 30V DC 210 mA	10 to 30V DC 210 mA
Temperature	-20 to 50 °C	-40 to 55 °C	-20 to 50 °C	10 to 30 °C	-20 to 50 °C	-10 to 55 °C	-10 to 55 °C
Weight	approx. 1 kg	approx. 1 kg	approx. 1 kg	approx. 4 kg	0.7 kg	2.2 kg	2.2 kg

GasFlag and Gasmaster channel control panels
GasFlag
For detectors without relay alarm we offer you the GasFlag. It is a single channel control panel without display and is simple to install on the wall. It accepts industry standard 4 to 20 mA inputs and two alarm relay outputs (max. 1A for 30 VDC).
Its LEDs shows the air status, and are powered by 13 to 28 VDC.

Gasmaster
Gasmaster is the flexible and simple-to-use solution for a self-contained control panel to monitor gas or fire hazards. We have several models with 1 and 4 channels and with or without PC interface. It provides alarm relays to connect bright flashing LEDs and ventilation fans.
It also provides 4 to 20 mA output and RS-485 modbus communications.

Contents
TXgard or Xgard with their sensors, calibration page and user's manual

Available gases : >>>> other gases and ranges are available, please enquire

Model No.	Description
Xgard-1-O2	Xgard-Typ 1, 0 to 25 vol% oxygen
Xgard-1-H2	Xgard-Typ 1, 0 to 2000 ppm hydrogen
Xgard-1-H2-UEG	Xgard-Typ 1, 0 to 4 vol% hydrogen (100% LEL)
Xgard-1-CO	Xgard-Typ 1, 0 to 250 ppm carbon monoxide
Xgard-1-NH3	Xgard-Typ 1, 0 to 50 ppm ammonia
Xgard-1-CL2	Xgard-Typ 1, 0 to 5 ppm chlorine
Xgard-1-O3	Xgard-Typ 1, 0 to 1 ppm ozone
Xgard-1-SO2	Xgard-Typ 1, 0 to 10 ppm sulphur dioxide
Xgard-1-PH3	Xgard-Typ 1, 0 to1 ppm phosphine
Xgard-5-CH	Xgard-Typ 5, 0 to100% LEL, Select the corresponding gas: methane, propane, butane, pentane, LPG, ethane, ethylene, hydrogen, acetylene, benzine (without lead)
Xgard-IR-1	Xgard, infrared sensor, 0 ... 5 % carbone dioxide, CO_2
Xgard-IR-2	Xgard, infrared sensor, 0 ... 2 % carbon dioxide, CO_2
TCgard-CH4	TCgard 0 to 100 vol% methane
TCgard-CO2	TCgard 0 to 100 vol% carbon dioxide
TXgard-IS+O2	TXgard-IS+ display included, 0 to 25 vol% oxygen
TXgard-IS+CO	TXgard-IS+ display included, 0 to 500 ppm carbon monoxide
TXgard-IS+H2S	TXgard-IS+ display included, 0 to 50 ppm hydrogen sulphide
TXgard-IS+O3	TXgard-IS+ display included, 0 to 1 ppm ozone
TXgard-IS+PH3	TXgard-IS+ display included, 0 to 2 ppm phosphine
TXgard-Plus-O2	TXgard-Plus display and relay for alarm included, 0 to 25 Vol% oxygen

Model No.	Description
TXgard-Plus-H2S	TXgard-Plus display and relay for alarm integrated, 0 to 50 ppm hydrogen sulphide
TXgard-Plus-CO	TXgard-Plus display and relay for alarm integrated, 0 to 500 ppm carbon monoxide
Flamgard-Plus-CH	Flamgard-Plus display and relay for alarm integrated, 0 to 100% LEL. Select the corresponding alarm: methane, propane, butane, pentane, hexane, LPG, ethane, hydrogen, propan.

Remote fixed gas detectors

C01818	GasFlag, with 1 channel without display, relay output, alarm LEDs
C01906	Gasmaster with 1 channel, without PC interface
C01928	Gasmaster with 1 channel, with PC interface
C01889	Gasmaster with 4 channels, without PC interface
C01927	Gasmaster with 4 channels, with PC interface
E07635	Software and interface for Gasmaster

Recommended Accessories

C03331	Zener MTL 702 barrier +, for EX 0 zone (1 for each detector)
TX-CAL	Recalibration (e.g. every 6 months)