

CO<sub>2</sub>  
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Cl<sub>2</sub>  
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CO  
O<sub>2</sub>  
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SO<sub>2</sub>  
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# Fixed Gas Detection Equipment



Field mounted gas detection solutions for  
the protection of plant and personnel

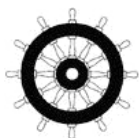
## Xgard

Detectors for Oxygen, Flammable and Toxic Gases

**X**gard is a comprehensive range of fixed point gas detectors that meet the diverse requirements for gas detection in industries throughout the world. Intrinsically safe (I.S.) or flameproof (Ex d) versions are available for a wide range of applications.



- Huge range of sensors available
- Choice of 3 sensor technologies
- GRN, aluminium or 316 stainless steel enclosure
- ATEX, UL, MED (Marine) and IECEx approved
- Xsafe for flammable gas detection in non hazardous areas
- Xgard models validated to IEC 61508 (SIL 1 to SIL 3)



## TXgard-IS+

Intrinsically Safe Gas Detector with Display

**T**Xgard-IS+ is an intrinsically safe (I.S.) toxic or oxygen gas detector with local LCD display. Upgraded electronics now enable an even wider choice of sensors and applications.

- 2-wire 4-20mA output
- Suitable for oxygen or a wide range of toxic gases
- Tough, carbon loaded nylon case
- Non-intrusive one-man calibration
- Proven track record
- ATEX, IECEx and UL approved



## TXgard Plus & Flamgard Plus

Flameproof Gas Detector with Display

**T**Xgard Plus is a flameproof (Ex d) toxic, or oxygen gas detector with local LCD display. A choice of sensors are available for use in a wide range of applications.

**F**lamgard Plus is a flameproof (Ex d) flammable gas detector with an LCD display. It uses poison resistant pellistors to detect % LEL levels of hydrocarbons, hydrogen and other flammable gases and vapours, including aviation fuel and leaded petrol vapours.



- 3 colour LED status indicator
- Non-intrusive one-man calibration
- Back-lit LCD display
- Relays for stand alone operation
- ATEX and UL approved

## Gasflag

### Single Channel Control Panel

Entry level control panel for monitoring any 4-20mA flammable, toxic or oxygen gas detector. Includes bright alarm LEDs and a loud sounder. Relays are fitted for switching external devices such as audible / visual alarms or valves. Applications include boiler rooms (flammable gas), swimming pools (chlorine), vehicle filling stations (LPG/CNG).

- Low cost
- Easy one button operation
- Simple installation
- Integrated indicators and sounder
- Alarm and fault relays for switching external devices



## CellarSafe

### Combined Sensor and Control System for CO<sub>2</sub> and O<sub>2</sub> Detection

CellarSafe is a carbon dioxide (CO<sub>2</sub>) and oxygen (O<sub>2</sub>) monitoring system complete with integral gas sensors and LCD display. It provides audible and visual alarms when carbon dioxide gas (or optionally oxygen), reaches dangerous levels. Supplied as standard with one repeater unit, 9 metres of cable and two relays for ventilation control. Ideal for use in bars, cellars, restaurants and wineries.

- Simple installation and operation
- Self-contained system
- Long sensor life
- Optional battery back-up
- Minimal maintenance



## Gasmaster

### One to Four Channel Control System

Gasmaster is the flexible and simple to use solution wherever you need a self-contained control panel to monitor gas or fire hazards. It combines extensive features and outstanding performance to suit all applications.

- Large multi-lingual LCD display
- 8A 250Vac alarm and fault relays
- 4-20mA and RS-485 Modbus outputs
- PC software for configuration and monitoring
- Simple installation and operation
- Validated to IEC 61508 SIL 2



## Vortex

### Multiple Detector Control Panel

Control panel for monitoring one to twelve gas detectors. Versatile modular system available with up to 32 programmable relays. Includes a gas display, battery back-up, internal alarm, one-man calibration feature, RS-485 Modbus communications, event logging and PC software for configuration and monitoring. Available in wall mount, 19" rack, panel mounting or Ex d Flameproof formats.

- Proven reliability
- Modular design
- IP65 Ingress protection
- RS-485 Modbus communications



## Gasmonitor Plus

### Rack Based Control System

**G**asmonitor Plus is a 19" rack based control system for monitoring up to 16 gas detectors or 32 fire zones per rack. Gasmonitor Plus racks can be supplied separately or built into wall mounting or floor standing cabinets and can be engineered into large systems to suit any site requirement. Gas detectors are independently powered and monitored, with a separate gas level display for each.

- Modular, limitlessly expandable design
- Individual display for each detector
- 3 alarm levels with software voting function
- Up to 84 relays can be fitted per rack
- 4-20mA output per channel



## Sample Systems

### Permanent Remote Monitoring

**S**ampling Systems provide the ideal solution for permanently monitoring toxic and/or flammable gases in environments where fixed point detectors may prove impractical. Typical applications include:

- Landfill boreholes
- Biogas pipelines
- CO<sub>2</sub> monitoring in breweries/distilleries
- Building protection
- Coal-gas monitoring
- Coal mill fire detection
- Wide variety of standard and bespoke systems
- Pumped or air driven systems
- High integrity design
- Fast response time
- Hazardous area systems



## Crowcon also offers a wide range of additional gas detection products:

### Open Path Gas Detectors

Available in a choice of operating ranges



### Flame Detectors

UV, IR, UV/IR and Triple IR models available to suit any application

### Barriers and Isolators

Zener barriers and galvanic isolators available for use with I.S. detectors and indicators



### Manual Call Points

Safe area, intrinsically safe, or flameproof options

### Sounders and Beacons

Safe area, intrinsically safe, or flameproof options



### Smoke and Heat Detectors

Wide selection available which are compatible with most Crowcon control panels

## IRmax

### Infrared Hydrocarbon Gas Detector

IRmax is an advanced hydrocarbon detector that incorporates the latest in NDIR technology and patented 'STAY-CLIR' low maintenance optics. Constructed from stainless steel and with a variety of outputs IRmax sets new standards for ease of installation and cost of ownership in oil and gas, chemical, utility and other industrial applications.

## IRmax

- 4 - 20mA
- IEC61508 SIL 2 compliant
- RS 485 Modbus



### Fixed IR Display

- Large, clear display shows gas level and other status information
- Simple non-intrusive calibration
- Enables connection of hand-held HART communicators

## Remote IR Display

- Can be mounted up to 30 metres from IRmax
- Removes the need to directly access the IRmax detector
- Choice of connection lead lengths



## I.S. Hand-Held Calibrator

- Enables calibration and interrogation of IRmax detectors without a Fixed or Remote IR Display
- Only one I.S. hand-held calibrator required per IRmax detector fleet
- Intrinsically Safe; suitable for use in hazardous areas

## IREX

### Infrared Pellistor Replacement Gas Detector

IREX is based on the same 'STAY-CLIR' optical system as IRmax and offers a cost effective approach for customers wishing to exchange existing pellistor based detectors for IR technology without having to replace their legacy mV control systems.

- Low (<1W) current requirement and mV output, like pellistors
- Microprocessor driven signal eliminates zero drift problems associated with pellistors and old cables
- Suitability for offshore use proven by test agency Micropack
- Variety of accessories and mounting options, including direct mounting to existing junction boxes



## Nimbus

### Infrared Flammable Gas Detector

Nimbus is a flameproof (Ex d) infrared gas detector, which provides a cost effective solution for the protection of plant and personnel. It complies with standards worldwide and a track record that proves it is built to last in all manner of environments.

- Detects a wide range of gases and vapours
- Integral status indicator
- ATEX and UL approved
- Addressable RS-485 Modbus output
- Robust beam splitter optics
- Validated to IEC 61508 SIL 2



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Crowcon also manufactures a wide range of portable gas detection products:



**Detective +**  
Transportable Area  
Gas Monitor



**Triple Plus +**  
Multi-gas and Purge Monitor



**Tetra**  
Multi-gas Personal Monitor  
with pump option



**Gas-Pro**  
Multi-gas Confined Space  
Monitor



**Tetra 3**  
Compact Multi-gas  
Personal Monitor



**Gasman**  
Single Gas  
Personal Monitor

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**CROWCON**  
Gas Detection You Can Trust