

Product Guide

Saving lives since 1970

 **CROWCON**



CALIBRATION
PRECISION SPECIALIST



What we do

Crowcon Detection Instruments Ltd was established in 1970 in Oxfordshire, UK. Now part of FTSE 50 Halma plc, Crowcon is a global company that focuses on gas safety and gas sensing technologies.

With an office based in Erlanger, Kentucky and multiple distributors and sales reps across the United States, we're able to reach numerous industries across the region.

Crowcon provides personal and fixed gas detection equipment, air quality monitoring products, tools for heating, ventilation and plumbing contractors as well as a digital gas insights platform to enable compliance and manage data.

Personal, portable and temporary area monitors

Single and multi-gas solutions for the monitoring of oxygen, flammable and toxic gases



Device	Clip SGD	Gasman	T4/T4x	T3
Capability:	1 gas	1 gas	1 – 4 gases	1 – 4 gases
Target gases:	CO, H ₂ S, O ₂	C ₂ H ₄ O, Cl ₂ , ClO ₂ , CO, CO ₂ *, COCl ₂ , F ₂ , H ₂ , HCN, HF, H ₂ S, NO, NO ₂ , NH ₃ , O ₂ , O ₃ , PH ₃ , SO ₂ , flammables	CO, H ₂ S, O ₂ , flammables	CO, CO ₂ *, H ₂ S, HCN, NH ₃ , O ₂ , O ₃ , SO ₂
Sensing technologies:	Electrochemical	Electrochemical, pellistor, infrared, MPs and LLO2*	Electrochemical, pellistor, flammables, MPs and LLO2	Electrochemical, pellistor, infrared*
Sampling:	Diffusion	Diffusion	Diffusion and optional hand aspirator pump	Diffusion
Approvals:	ATEX, IECEx, cCSAus, UL	ATEX, IECEx, CSA	ATEX, IECEx, UL, CUL, MED	ATEX, IECEx, CSA
Customer value:	2 year fixed life delivers low cost of ownership	Full function, rugged & compact. Extensive range of target gases	Delivers compliance, offering unique TWA resume functionality	Top mount display for ease of viewing



Device	Gas-Pro	Gas-Pro TK	Detective+
Capability:	1 – 5 gases	1 – 4 gases	1 – 4 gases
Target gases:	Cl ₂ , ClO ₂ , CO, CO ₂ , H ₂ S, NH ₃ , NO, NO ₂ , O ₂ , O ₃ , SO ₂ , flammables, VOC	CO, H ₂ S, O ₂ , flammables (%LEL & %vol)	AsH ₃ , C ₂ H ₄ O, Cl ₂ , ClO ₂ , CO, CO ₂ , F ₂ , H ₂ , H ₂ S, HCL, HCN, HF, NH ₃ , NO, NO ₂ , O ₂ , PH ₃ , SO ₂ , flammables, VOC
Sensing technology:	Electrochemical, pellistor, infrared, PID	Electrochemical, pellistor, infrared	Electrochemical, pellistor, infrared
Sampling:	Diffusion and optional built in pump	Diffusion and optional built in pump	Diffusion and optional built in pump
Approvals:	ATEX, IECEx, UL, MED	ATEX, IECEx, UL, MED	ATEX, IECEx
Customer value:	CSE & PEC modes guide users through defined processes	Inert atmosphere monitoring including Tank Check mode	Perimeter monitoring wired or wireless, raised sensors prevent water ingress

* Safe area use (not hazardous area certified)

Where 'flammables' are listed multiple calibrations are usually available (e.g. butane, propane, pentane) please check the website for further details

Fixed detectors

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



Device	Xgard	Xgard Bright	TXgard IS+
Enclosure:	Stainless steel, Aluminium alloy, Nylon	Aluminium Alloy	Nylon
Display:	No	Yes	Yes
Target gases:	Br ₂ , C ₂ H ₄ O, Cl ₂ , ClO ₂ , CO, CO ₂ , COCl ₂ , F ₂ , H ₂ , H ₂ S, HCL, HCN, HF, NH ₃ , NO, NO ₂ , O ₂ , O ₃ , SO ₂ , flammables (pellistor & IR)	CO, H ₂ S, O ₂ , CO ₂ , flammables (Pellistor, IR and MPS)	Cl ₂ , ClO ₂ , CO, COCl ₂ , H ₂ , H ₂ S, HF, HCN, NH ₃ , O ₂ , O ₃ , SO ₂
Sensing technology:	Electrochemical, pellistor, infrared, PID	Electrochemical, pellistor, IR and MPS	Electrochemical
Output:	mA, mV	mA, Hart, RS-485	mA
Relay:	No	Yes	No
Approvals:	ATEX, IECEx, UL	ATEX, IECEx	ATEX, IECEx, UL
Customer value:	Comprehensive options providing cross-site compliance from a single platform. Any gas, any industry, any where	Delivering reduced installation and maintenance costs. Display for easy interfacing. Comes with MPS sensor option for calibration-free detection of flammables	Delivering reduced installation and maintenance costs.



Device	Xgard IQ	IRmax	Fgard IR3 Flame Detector
Enclosure:	Stainless Steel	Stainless Steel	Stainless Steel or Aluminium
Display:	Yes	Yes (optional)	No
Target gases:	Cl ₂ , CO, H ₂ S, HF, NH ₃ , O ₂ , O ₃ , SO ₂ , flammables (pellistor & IR)	Flammables	N/A
Sensing technology:	Electrochemical, pellistor, infrared	Infrared	Triple IR flame detection
Output:	mA, Hart, Fieldbus, RS-485	mA, Hart, RS-485	mA, HART
Relay:	Yes	No	Yes
Approvals:	ATEX, IECEx	ATEX, IECEx	ATEX, IECEx, SIL2, FM, PESO, Inmetro (pending)
Customer value:	Remote and hot swap sensor options ensure optimal sensor placement and reduced maintenance times. Suited for high-temperature applications	Remote or localized display options ensure optimal sensor placement and reduced maintenance times	Reliable fast flame detection with triple IR

Controllers



Device	Gasmaster	GM Addressable Controllers	Vortex
Channel input:	1-4 input	1-128 input	1-12 input
Input:	mA, mV, Fire	mV, mA, RS-485	mA, mV, fire
Output:	mA, RS-485	mA, RS-485, TCP IP	RS-485, Profibus
Event logging:	Yes	Yes	Yes
Battery backup:	Yes	Yes	Yes
Relay option:	Yes	-	Yes
Customer value:	Large display delivers user friendly system status and maintenance functionality	Addressable solution reducing installation cabling requirements delivering reductions in time and cost	Flexible control package for single or multi-controller requirements



Device	Gasmonitor Plus	Gasflag
Channel input:	1-16 input	Single
Input:	mA, mV, fire	4-20 mA sink or source (selectable)
Output:	mA	None
Battery backup:	Yes	None
Relay option:	Yes	Yes
Customer value:	Rack based system offers the ability to engineer complex systems from standard controllers	A simple controller when only one detector head is required

Engineered Fixed and Sampling systems

Custom gas detection systems.
Engineered to your needs.

Resolve your specific problems with our custom-made solutions.
Because one size doesn't fit all.



Custom-built gas detection systems



50+ years' custom systems experience



Collaborative design process



EFS team solely focused on custom solutions



All industries and applications

CROWCON **CONNECT**

Gas Insights, **Safer Lives**

- ✓ Taking control of **your data**
- ✓ Keeping track of **your safety**
- ✓ Connecting you with **your device**

Sensor Technologies

The next generation of sensor technologies

Reduce cost of ownership without compromise with our new long-life Oxygen sensor.

- Industry's first 5-year warranty
- Lead-free for RoHS compliance
- Reduced sensor replacement
- Lower cost of ownership
- Reduced environmental impact

Accurately detect numerous hazardous gases in one Molecular Property Spectrometer™ (MPS) sensor for better safety and more operational efficiency.

- Sensor Poisoning is solved
- TrueLEL™ multi-gas accuracy
- Zero calibration for 5 years
- Hydrogen ready
- Increased battery life
- Zone 0 certified



Combustion Analyzers and HVACR Products

All the tools you need for domestic
and commercial heating, ventilation, air
conditioning and hot water appliances.

Combustion Analyzers
Manometers
Gas leak detectors
Gas safety monitors



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The all-in-one Combustion Analyzer for HVACR, heating and plumbing contractors

Seven devices, all-in-one

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1. Combustion Analyzer
2. Pressure tester
3. Ambient air monitor
4. Tightness tester
5. Differential temperature monitor
6. Room safety tester
7. Gas leak detector





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Crowcon reserves the right to change the design or specification of the product without notice. 2022

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