Product Guide

Saving lives since 1970

CROWCON

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 manufacturing facilities in both the UK and China, as well as our regional offices and authorised channel partners, we can reach numerous industries worldwide.

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

Personal, portable and temporary area monitors

Single and multigas 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	1 – 4 gases
Target gases:	CO, H_2S, O_2	C_2H_4O, Cl_2, ClO_2, CO, CO_2*, $COCl_2$, F_2, H_2, HCN, HF, H_2S, NO, NO_2, NH_3, O_2, O_3, PH_3, SO_2, flammables	CO, H_2S, O_2, flammables	CO, H_2S, O_2, flammables	CO, CO_2*, H_2S, HCN, NH_3, O_2, O_3, SO_2
Sensing technologies:	Electrochemical	Electrochemical, pellistor, infrared, MPs and LLO2*	Electrochemical, pellistor, flammables and LLO2	Electrochemical, pellistor, flammables, MPs and LLO2	Electrochemical, pellistor, infrared*
Sampling:	Diffusion	Diffusion	Diffusion and optional hand aspirator pump	Diffusion and optional hand aspirator pump	Diffusion
Approvals:	ATEX, IECEx, cCSAus, UL	ATEX, IECEx, CSA	ATEX, IECEx, UL, INMETRO, MED	ATEX, IECEx, UL, INMETRO	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	Delivers compliance, offering unique TWA resume functionality	Top mount display for ease of viewing

Device	Gas-Pro	Gas-Pro TK	Detective+	LaserMethane Smart
Capability:	1 – 5 gases	1 – 4 gases	1 – 4 gases	1 gas
Target gases:	Cl_2, ClO_2, CO, CO_2, H_2S, NH_3, NO, NO_2, O_2, O_3, SO_2, flammables, VOC	CO, H_2S, O_2, flammables (%LEL & %vol)	AsH_3, C_2H_4O, Cl_2, ClO_2, CO, CO_2, F_2, H_2, H_2S, HCL, HCN, HF, NH_3, NO, NO_2, O_2, PH_3, SO_2, flammables, VOC	CH_4, methane containing gases (e.g. natural gas)
Sensing technology:	Electrochemical, pellistor, infrared, PID	Electrochemical, pellistor, infrared	Electrochemical, pellistor, infrared	TDLAS Infra-red
Sampling:	Diffusion and optional built in pump	Diffusion and optional built in pump	Diffusion and optional built in pump	N/A
Approvals:	ATEX, IECEx, UL, INMETRO, MED	ATEX, IECEx, UL, INMETRO, MED	ATEX, IECEx (being clarified)	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	Detect methane leaks at a distance up to 30m, without having to enter a hazardous area.

* 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_2H_4O, Cl_2, ClO_2, CO, CO_2, $COCl_2$, F_2, H_2, H_2S, HCL, HCN, HF, NH_3, NO, NO_2, O_2, O_3, SO_2, flammables (pellistor & IR)	CO, H_2S, O_2, CO_2, flammables (Pellistor, IR and MPS)	Cl_2, ClO_2, CO, $COCl_2$, H_2, H_2S, 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, UL (pending)	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_2S, 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 localised 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

Bespoke gas detection systems. Engineered to your needs.

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

Custom-built gas detection systems

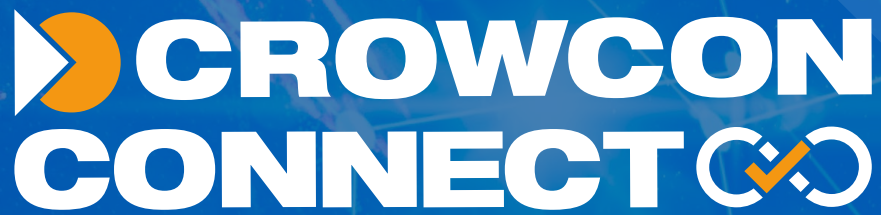**50+ years'** bespoke systems experience

Collaborative design process

EFS team solely focused on bespoke solutions

All industries and applications

CROWCON CONNECT

Gas Insights, **Safer Lives**

✔ Taking control of **your data**

✔ Keeping track of **your safety**

✔ Connecting your with **your device**

www.crowconconnect.com

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

Flue Gas Analysers and HVACR Products

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

Flue gas analysers
Pressure meters
Gas leak detectors
Gas safety monitors

The all-in-one Flue Gas Analyser for HVACR, heating and plumbing engineers

Seven devices, all-in-one

More than just a Flue Gas Analyser

Sprint *Pro*

1. Flue Gas Analyser

2. Pressure tester

3. Ambient air monitor

4. Tightness tester

5. Differential temperature monitor

6. Room safety tester

7. Gas leak detector

Air Quality

SENSIT by ▶CROWCON

Making **sense** of the **air** around you

Versatile multi-industry air monitoring solutions befitting across a range of applications

- **Suitability** across multiple sectors

- Detection of up to **five gaseous pollutants**

- Lightweight, portable and compact with **weather resistant casing**

- **Local** or **remote** operation capabilities

- Reliability proven across **15 countries**

RAMP

A low cost and easy to deploy, multi-industry air monitoring solution; SENSIT RAMP is accurate for measuring PPB resolution for up to five pollutants including CO, NO, SO2, O2, NO2, SO2 and PM2.5 along with meteorological elements. A reliable solution to provide real-time insights into the air we breathe.

SPOD

Combining wind and air pollutant concentration measurements to ensure remote and reliable air quality monitoring and pollution data management. Designed for near-fenceline applications, SPOD provides real-time, direct-reading capabilities for localised emissions and reliable, connected detection for VOC measurement. A dependable, low-cost, solar powered choice for those ready to get proactive about air quality.

Regional Offices

As well as our head office in Milton Park, Abingdon, UK; we have regional offices in China, UAE, Singapore and the USA; supporting end customers and our network of channel partners.

Products are made in Abingdon using Lean and Six-Sigma production principles, in our manufacturing facility. This facility is accredited to ISO 9001:2015, BS EN ISO/IEC 80079-34:2011, ISO 14001:2015, ISO18001:2007 as well as passing regular audits by international bodies such as LRQA, BASEEFA, UL, CSA and Lloyds Register

A **Halma** company

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