



DETECTORS

When it comes to workplace safety, prevention is definitely better than cure. For workplaces that face hazardous gas risks, there's no substitute for a comprehensive monitoring system. One vital component of such a system are gas detectors.

There are two main types of gas detectors: fixed and portable.

Fixed gas detectors monitor the workplace and ensure that important equipment and sites remain safe for both workers and the processes running within them.

Portable gas detectors are carried by workers to give advance notice in the event of gas-related workplace hazards. Choose between both, or integrate both into your integrated safety system for best effect.



GAS DETECTION & AIR QUALITY MONITORING

There are three main types of gas hazards, note that there are gases such as CO which fall into all **three hazard-categories**:



Flammable Gas Hazards
RISK OF FIRE OR EXPLOSION

The gas detector detects the LEL or Lower Explosive Limit, which is the minimum concentration of flammable gas needed for combustion or explosion.



Toxic Gas Hazards
RISK OF POISONING

Measured in ppm or parts per million, toxic gases are harmful even at low concentrations. Acceptable limits are usually quoted in terms of a time weighted average (TWA) which is an average concentration over a given duration of exposure. Common gases measured are CO, H₂S, SO₂, etc.



Asphyxiant Gas Hazards
RISK OF SUFFOCATION

The gas detector detects the LEL or Lower Explosive Limit, which is the minimum concentration of flammable gas needed for combustion or explosion.

Below are some of the typical risks faced by workers in confined spaces

- Risk of asphyxiation due to low levels of O₂
- Risk of exposure to combustible and toxic gases, dusts and vapors
- Risk of falling into confined space
- Risk of entrapment or engulfment (being buried alive by free-flowing solids)
- Openings are small. Speedy rescue, self-rescue and emergency evacuation will be difficult
- Your work activity might introduce new hazards (e.g. hot work)
- Heat injuries caused by heat stress

A common selection for workers in confined spaces is a four-gas meter, normally in-built with sensors to detect **LEL, O₂, CO and H₂S**.

Detection by smell or sight alone is dangerous. More often than not, low concentrations of toxic gases – low enough to go undetected by smell – can hurt or even kill a human being.



ALCOLIZER COMPARISON CHART

**EC****HH3****LE5****WM4****CENTURION**

USE	PERSONAL	INDUSTRY (MED VOLUME)	INDUSTRY (HIGH VOLUME)	INDUSTRY (HIGH VOLUME)	INDUSTRY (HIGH VOLUME)
AS3547 STANDARDS	✓	✓	✓	✓	✓
PLATINUM FUEL CELL	mini SIZE	micro SIZE	micro SIZE	FULL SIZE	FULL SIZE
DATA LOGGING	✓	✓	✓	✓	✓
ACTIVE MODE		✓	✓	✓	
PASSIVE MODE		✓	✓		✓
PRINTING				USB	USB
CONNECTIVITY		USB	USB BLUETOOTH	USB RS232 Ethernet Optional Wifi Optional 3G	USB RS232 Ethernet

ACCURACY: FACTORY BUILT/DELIVERED TO +/- 2%

READY-TO-TEST TIME	3	1	1	1	1
ANALYSIS TIME FOR ZERO RESULT	5	1	1	1	1
ON-SCREEN RETAINED TIME FOR ZERO READING	5	5	5	5	5
ANALYSIS TIME FROM 0.050 READING	12	4	4	4	4
RECOVERY TIME FROM 0.050 READING	45	10	10	10	10
POWER SOURCE	2 x AAA Alkaline	Li Ion Rechargeable	Li Ion Rechargeable	100-240V≈ 50/60Hz 75W	100-240V≈ 50/60Hz 75W
BATTERY LIFE	6 Months Min. Max. 2,000 Tests	1,500+ Tests Per Charge	1,500+ Tests Per Charge	Unlimited	Unlimited
DIMENSIONS, WT.	125x70x22mm, 200g	202x63x39mm, 300g	202x63x39mm, 326g	560x390x 190mm, 18kg	400x200x 100mm, 4.5kg
SERVICE INTERVAL	6 mths	6 mths	6 mths	12 mths	12 mths
CALIBRATION	6 mths	USB	USB	USB	USB
WARRANTY	12 mths	24 mths	24 mths	24 mths	24 mths

ALCOHOL BREATHALYZER



ALCOLIZER HANDHELD SERIES

- **ALCOLIZER LE5** : Fast and reliable Alcohol Breath Testing Unit for use by law enforcement. Features a modular system that allows on-site calibration and service in 60 seconds.
- **DRUGLIZER LE5** : The LE5 Drug Tester is a fast, accurate drug testing unit for law enforcement and industrial workforces around the world.
- **ALCOLIZER HH3** : Designed for commercial and industrial alcohol breath testing where evaluation is required in a small, rugged format.
- **ALCOLIZER EC EASY CHECK** : Personal alcohol breath test unit relied on by thousands to keep safe. Features a high-grade platinum fuel cell for accurate readings.



Easy Check

BRAND	PRODUCT CODE	DESCRIPTION
ALCOLIZER	925APL400210CS	LE5 Breath Tester Complete System
	925APL90100CS	Alcolizer Druglizer LE5 Drug Tester
	925APL300060	HH3 Breath Tester
	925APL120010	Easy Check (EC) Breathalyser

WALL MOUNT SERIES BREATHALYZER



WALL MOUNT 4



WALL MOUNT CENTURION

ALCOLIZER WALL MOUNT SERIES

- **ALCOLIZER WALL MOUNT 4** : Wall mounted Alcohol Breath Testing Unit for the fastest worker turnaround in high volume testing environments. Conducts 300 tests per hour.
- **ALCOLIZER WALL MOUNT CENTURION** : Wall Mount Centurion is the latest in compact, efficient, zero-tolerance alcohol testing from Alcolizer.

BRAND	PRODUCT CODE	DESCRIPTION
ALCOLIZER	925APL701060	Wall Mount 4 Keypad + Camera
	925APL701000	Wall Mount 4 Standard
	925APL702000CS	Centurion Complete System

MOUTHPIECES

- Additional mouthpieces available in packs of 100 pieces



BRAND	PRODUCT CODE	DESCRIPTION
ALCOLIZER	925APL120010	EC nozzle, 100pcs/bag
	925APL430400	LE5/HH3 standard spigot locator mouthpiece, 100pcs/bag
	925APL430420	LE5/HH3 spit-trap/non-return valve mouthpiece, 100pcs/bag

CONNECTED SAFETY



BLACKLINE G7c LONE WORKER MONITORING

• G7c STANDARD:

- Fully-connected personal safety monitor with intrinsically safe hardware
- Two-way text messaging
- Optional two-way voice calling (G7c)
- Fall, no-motion and missed check-in detection
- Manual SOS latch
- Assisted-GPS location technology
- Indoor location technology

• G7c SINGLE-GAS:

- Includes all features offered by G7 Standard
- Single-gas sensor cartridge with choice of: CO, high-range CO, CO₂, Cl₂, ClO₂, H₂, H₂S, HCN, NH₃, high-range NH₃, O₂, PID, SO₂
- Lifetime gas sensor warranty

• G7c MULTI-GAS DIFFUSION:

- Includes all features offered by G7 Standard
- Multi-gas sensor cartridge with choice of: CO, high-range CO, CO-H, CO₂, COSH, Cl₂, ClO₂, H₂, H₂S, HCN, NH₃, high-range NH₃, O₂, PID, SO₂
- Lifetime gas sensor warranty



• G7c MULTI-GAS PUMP:

- Includes all features offered by G7 Standard
- Multi-gas sensor cartridge with choice of: CO, high-range CO, CO-H, CO₂, COSH, Cl₂, ClO₂, H₂, H₂S, HCN, LEL-IR, NH₃, high-range NH₃, O₂, PID, SO₂
- Lifetime gas sensor warranty

BRAND	PRODUCT CODE	DESCRIPTION
BLACKLINE	920BLSG7C-Z-EU	G7c Cellular, G7 Standard Cartridge
	920BLSG7C-S-V-EU	G7c Cellular, G7 Single-Gas Cartridge
	920BLSG7C-Q-HIMO-EU	G7c Cellular & G7 Diffusion Multi-Gas Cartridge
	920BLSG7C-P-HIMO-EU	G7c Cellular, G7 Pumped Multi-Gas Cartridge

CONNECTED SAFETY

blackline**safety**

CHANGING THE GAME. **AGAIN.**

G7 Exo: Area Monitoring And Gas Detection
That Seamlessly Connects Your Site And
Teams.



- 100+ day battery life
- Diffusion and combination diffusion / pump models
- Internal 2G/3G/4G wireless works in 100+ countries
- Works globally with optional Iridium satellite communication
- Call for help using the SOS latch
- Simultaneously monitors up to five gases
- Over 20 available gas sensor options
- Works seamlessly with Blackline Live cloud-hosted software
- Communicates data to the Blackline Safety Cloud – no need to collect data from the field
- Blackline Live automates configuration changes, plus firmware updates
- Blackline Analytics automates compliance reporting
- Internal GPS and beacon location technology
- Manage G7 EXO area monitors in Blackline Live alongside G7c personal monitors

BRAND	PRODUCT CODE	DESCRIPTION
BLACKLINE	920BLSG7CEX0-X-X	G7 Exo, Cellular, Diffusion Multi-Gas Module

PERSONAL GAS MONITOR

SINGLE GAS DETECTOR



CROWCON SGD CLIP

- Portable detection for carbon monoxide, hydrogen sulphide or oxygen
- Easy to use with one-button navigation
- 2-year battery life

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNCL-H-10	Clip SGD H2S Disposable Gas Monitor
	920CRNCL-O-19.5	Clip SGD O2 Disposable Gas Monitor



CROWCON GASMAN

- Versions available for flammable gas, oxygen or toxic gases
- Rugged body that offers high impact resistance
- Outfitted with an alarm and backlit screen

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNGS	Gasman Single Gas



HONEYWELL BW™ CLIP

- Available in a two-year or three-year version for H₂S or CO
- Available in a two-year version for O₂ or SO₂
- Unique hibernation case extends service life for the two-year H₂S or CO
- Compact, lightweight and easy to use

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	920BWTBWC2-H	BW™ Clip Series - Maintenance free Single Gas Detectors



HONEYWELL BW™ SOLO

- High standards of sensor quality and reliability
- The easiest single-gas detector to service
- The first single-gas detector with the 1 Series sensor for CO, O₂, CO₂

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	-	BW™ Solo - Single Gas Detectors

MULTI GAS MONITOR

MULTI-GAS DETECTOR



CROWCON T4

- Detects carbon monoxide, hydrogen sulphide, oxygen depletion and flammable gases
- Easy to use with one-button navigation
- 18 hour battery

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNT4-HOCA-SG	Gasman Single Gas



HONEYWELL BW™ MICROCLIP

- Simultaneously monitor for up to four gases including O₂, H₂S, CO and combustibles
- Reflex™ Technology ensures sensor responsiveness for safety, uptime and worker confidence
- 18 hour battery

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	920BWTMCXL-XWHM-Y-OR	BW™ MicroClip Series



CROWCON GAS-PRO

- Detects up to 5 gases
- Easy to use with one-button navigation
- Water and dust resistant

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNGPC-0014-EA-C	Gas-Pro (4-gas)
	920CRNGPPUIADA-DADBFDPAC	Gas-Pro Pid Portable Multi-Gas Detector (5-gas with PID)
	920CRNGPPU1ACC-DADBFDIAOC	Gas-Pro Pumped With Flow Plate (5-gas with CO2)



HONEYWELL BW™ MAX XT II

- Monitors H₂S, CO, O₂ and combustibles
- One-button operation with robust, motorized pump
- Compatible with MicroDock II Quick Specs:

BRAND	PRODUCT CODE	DESCRIPTION
HONEYWELL	920BWTXT-XWHM-Y-EU	BW™ Max XT II

FIXED GAS MONITOR



XGARD FIXED GAS DETECTOR

- Low cost of ownership
- Flexible installation option (wall/ ceiling mounting; M20/ ½" NPT/ ¾" NPT cable glands)
- Wide range of sensors (flammable, toxic gases & oxygen)

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNXG5-A1-01-FD	Xgard Type 5 Flameproof Methane Flammable Gas Detector



CROWCON XGARD BRIGHT

- Fixed point gas detector
- Rugged and easy to mount
- Supports flammable, toxic, oxygen, sensor
- Explosion proof housing
- IP65 or IP66 rating (with weatherproof cap)

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNXGB-A1-01-A-ZA-R	Xgard Bright Fixed Co Gas Detector



CROWCON GASMATER

- Control panel with 4 input-ma channels and communications port
- Large display
- Versatile input and output functions

BRAND	PRODUCT CODE	DESCRIPTION
CROWCON	920CRNGMS-4-40-EUR-C	Gasmaster 4 Control Panel With 4 Input-Ma Channels And Communications Port

FIXED GAS MONITOR



OLDHAM MX 43 CONTROL PANEL

- Analog and digital controller
- 4 or 8 lines, up to 32 detectors
- Up to 32 fully programmable relays (OR, AND, NAND, NOR, Voting functions)
- Remote modules (cost savings on wiring installation)
- USB Data logging capability
- RS485 Modbus RTU and multiple analog outputs

BRAND	PRODUCT CODE	DESCRIPTION
OLDHAM	9200DMWMX43E-8-2-A-0-3-1	MX 43 Wall-Mounted Version with One 8-Analog-Input Card, Red Strobe and Horn



OLDHAM OLCT100/ OLC100

- 4-20 mA analog transmitter without display
- SIL2 capability for LEL, O₂, CO, H₂S, NH₃, CO₂
- Detects combustible, toxic or refrigerant gases and O₂
- Available with electrochemical, infrared or semi-conductor sensors
- Available in explosion-proof or intrinsically safe versions, and stainless steel
- A high-temperature version allows operation up to 200°C

BRAND	PRODUCT CODE	DESCRIPTION
OLDHAM	9200D-MOLCT100-XP-001-1	OLCT 100 XP IR Transmitter, 0-100% LEL CH ₄ Atex, M20 Cable Entry, Aluminum



OLDHAM ITRANS2

- Detects Explosive and Toxic Gas, or Oxygen
- Non-Intrusive Calibration
- Smart Infrared Gas Sensors
- HART Communication Protocol (NEW)
- MODBUS Communication
- Programmable Relays
- Dual Gas Sensing



BRAND	PRODUCT CODE	DESCRIPTION
OLDHAM	9200DMITRAN2	iTrans2 Stand Alone - Infrared Gas Detector

IAQ AIR MONITORING SYSTEMS



GRAYWOLF DSII-8 EIGHT SENSOR PROBE

- Highly accurate, extremely fast response sensors
- Track VOCs over time, rapidly bloodhound VOC sources
- A very powerful screening tool

BRAND	PRODUCT CODE	DESCRIPTION
GRAYWOLF	920GWSDSII-8-KIT	DSII-8 Eight Sensor Probe Includes Charging Cradle



GRAYWOLF IAQ ADVSENSE II

- Upgraded revision of the original AdvancedSense
- Ability to use wireless probe via Bluetooth
- Can install up to 7 sensors

BRAND	PRODUCT CODE	DESCRIPTION
GRAYWOLF	920GWSASP-IAQ-PLUS	Advancedsense Pro IAQ Plus Indoor Air Quality Survey & Monitoring Kit



GRAYWOLF PARTICULATE METERS, MONITORS

- Measures 0.3 μm to 25.0 μm
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Particle meters that can act as standalone instruments
- Links up with Graywolf instruments or mobile PC
- Easy to configure and transfer data

BRAND	PRODUCT CODE	DESCRIPTION
GRAYWOLF	920GWSPC-GW3500-KIT	PC-3500 6 Channel Particle/Mass Handheld Meter Kit
	920GWSPC-GW4000-KIT	PC-4000 6 Channel Particle/Mass Area Monitor Kit
	920GWSPC-GW5000-KIT	PC-5000 6 Channel Particle/Mass Wall-Mount Monitor Kit

PID GAS MONITOR

MPOWER NEO PID DETECTOR

- Smaller and lighter than comparable PIDs
- Most stable ppb-level PID on the market
- Outstanding linearity over full measurement range
- ISM Wireless communication at longer distances and with no subscription fees

BRAND	PRODUCT CODE	DESCRIPTION
MPOWER	920MPOM011-0005-000	Neo Pid Detector MP182 Ext (Blue Boot)
	920MPOM011-0006-000	Neo Pid Detector MP182 Ext (Black Boot)

