

Transportable Multi-gas monitor

Detective



Detective, the transportable detector, is the solution to all your temporary area and fence protection needs.

Used singly or linked together, Detective gives a loud and clear alarm showing staff the safest exit route.

Customisable alarm tones, water and impact resistant design and clear information display make Detective the ideal choice for your transportable gas detection needs.

Superb pedigree

- Detective is based on the highly successful Triple Plus multi-gas monitor which has sold over 40,000 units worldwide

Extremely loud, clear and programmable alarms

- Wailing omni-directional siren, 101 dBA @ 1 metre
- High intensity LED clusters and panel indicator pinpoint source of hazard
- Linked Detectives flash in alarm
- Audible and visible confidence blip.

Uniquely rugged, tripod construction

- Detectors are fully protected, even if device is overturned
- Raised detectors prevent water ingress
- Easy to set up
- Light, stackable design for easy transportation

Large four gas, simultaneous text display

- Clear information, easily seen at a distance
- Easy tracking of multiple hazards

Detective

Specification

Weight	8.5 kg (19lb)		
Dimensions	660 h x 380 w x 380 d mm (26 x 15 x 15 inches)		
Typical measuring ranges and alarm settings (up to four gas measurement channels and three levels of alarm)	<i>Range</i>	<i>Alarm</i>	
	Flammable gas	0 – 100% LEL	20% LEL
	Oxygen	0 – 25%	19% & 23%
	Hydrogen sulphide	0 – 50 ppm	10 ppm
	Carbon monoxide	0 – 500 ppm	35 ppm
	Sulphur dioxide	0 – 10 ppm	2 ppm
	Chlorine	0 – 5 ppm	0.5 ppm
	Nitrogen dioxide	0 – 10 ppm	2 ppm
	Phosphine	0 – 5 ppm	0.5 ppm
	Ammonia	0 – 50 ppm	25 ppm
	Hydrogen (<i>non-flammable levels</i>)	0 – 2000 ppm	–
	Hydrogen cyanide	0 – 25 ppm	10 ppm
	Hydrogen chloride	0 – 10 ppm	5 ppm
	Ozone	0 – 1 ppm	0.5 ppm
	Other sensors available		
Typical response times	Methane 20 s, Oxygen 10 s, Typical toxic gas 20 s.		
Expected sensor life	Flammable 5 years, Toxic 3 years, Oxygen 2 year minimum.		
Audible alarms	Wailing, omni-directional siren, 101 dBA @ 1 metre. Confidence blip (selectable). Continuous tone for low battery.		
Visible alarms	Four large, top-mounted red LED clusters and single red LED on control panel. In alarm mode LED clusters flash two at a time in quick succession and red LED lights on those Detectives sensing the hazard. LED clusters of linked Detectives flash more slowly. Slow flashing green LED indicates normal working. Rapid flashing green LED indicates low battery.		
Display	2 lines of 24 characters, dot matrix high contrast LCD with back light operating for 30 minutes. Values and units for up to 4 gases displayed simultaneously at current, TWA or peak levels. Low battery, real time and elapsed time, calibration and configuration data also displayed.		
Datalogging	Adjustable sample rate, 100 hours @ 1 minute sample rate (maximum 6000 data points per channel).		
Battery	6 V, 4.8 Ah Sealed lead acid battery pack		
Battery life	Standard instrument: 24 hours minimum, depending on sensors.		
Battery charging	Built-in battery charging circuit, dual rate Input 100 - 250 V ac (Safe Area operation only) Typical charge time: 5 - 6 hours		
Operating temp. range	-20°C to +50°C (-4°F to 122°F).		
Humidity	0 – 95% RH non condensing.		

Approval codes	Europe USA and Canada	Ex ias IIC T4 Class 1 Division 1, Groups A, B, C, D
Standards	Europe USA and Canada	EN50014, EN50020, SFA3009 CSA 22.2
Ingress protection	IP65	
RF radiation	tested to EN55022 class B and meets EN50081-2	
RF immunity	tested to IEC801-3 and meets EN50082-2	
PC Interface	Detective has an in-built PC interface, which can be connected to the serial port of a computer using the RS232 lead. The Windows™ compatible software Crowcoms 2000 is then used to adjust or set: all alarms, levels of alarm (oxygen: 1 descending, 1 ascending), clock and password. Crowcoms 2000 also controls datalogging, giving the user a datafile compatible with all leading spreadsheets.	
Autocalibrator	Detective can be routinely calibrated quickly and simply using Autocalibrator. The internal pump of Autocalibrator handles up to five gases. A PC interface provides easy access with optional datalogging for proof of calibration.	
Accessories	Baffle plate (to protect sensors) Interconnecting lead - 10 m Computer lead - RS232 serial link Aspirator Manual bulb and 2 m hose, both non-absorbent and hydrocarbon resistant, 1 m probe, water trap and extra hose available	

Linked Detectives

