

## 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 providing effective warning of gas hazards on an area basis. The rugged 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 and clear alarms**

- Wailing omni-directional siren, 101 dBA @ 1 metre
- High intensity LED clusters provide visual indication of alarms
- All linked Detectives indicate an alarm sensed by any one unit
- Units actually sensing alarm have faster LED flash
- 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, allows identification of gas hazard
- Easy tracking of multiple hazards

# Detective

## Specification

<b>Weight</b>	8.5 kg (19lb)		
<b>Dimensions</b>	660 h x 380 w x 380 d mm (26 x 15 x 15 inches)		
<b>Typical measuring ranges and alarm settings</b> (up to four gas measurement channels)		<i>Standard Range</i>	<i>Typical Alarm Levels</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 Other ranges and alarm levels available		
<b>Typical response times</b>	Methane 20 s, Oxygen 10 s, Typical toxic gas 20 s.		
<b>Expected sensor life</b>	Flammable 5 years, Toxic 3 years, Oxygen 2 year minimum.		
<b>Audible alarms</b>	Wailing, omni-directional siren, 101 dBA @ 1 metre. Confidence blip (selectable). Continuous tone for low battery.		
<b>Visible alarms</b>	Four large, top-mounted red LED clusters and single red LED on control panel. In alarm mode LED clusters flash in pairs in quick succession and control panel LED lights on those Detectives sensing the hazard. LED clusters of linked Detectives repeating the alarm, flash more slowly. Slow flashing green LED indicates normal working. Rapid flashing green LED indicates low battery.		
<b>Display</b>	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.		
<b>Datalogging</b>	Adjustable sample rate, 100 hours @ 1 minute sample rate (maximum 6000 data points per channel).		
<b>Battery</b>	6 V, 4.8 Ah Sealed lead acid battery pack		
<b>Battery life</b>	Standard instrument: 24 hours minimum, depending on sensors.		
<b>Battery charging</b>	Built-in battery charging circuit, dual rate Input 100 - 250 V ac (Safe Area operation only) Typical charge time: 5 - 6 hours		
<b>Operating temp. range</b>	-20°C to +50°C (-4°F to 122°F).		
<b>Humidity</b>	0 – 95% RH non condensing.		

<b>Approval codes</b>	Europe USA and Canada	ATEX II 2G EEx ibd IIC T4 Class 1 Division 1, Groups A, B, C, D
<b>Standards</b>	Europe USA and Canada	EN50014, EN50020, SFA3009 CSA 22.2
<b>Ingress protection</b>	IP65	
<b>RF radiation</b>	tested to EN55022 class B and meets EN50081-2	
<b>RF immunity</b>	tested to IEC801-3 and meets EN50082-2	
<b>PC Interface</b>	Detective has an in-built PC interface, which can be connected to the serial port of a computer using the RS232 lead. The PC software Crowcoms 2000 can be used to set alarms, clock, datalogging interval and password. Crowcoms 2000 also controls datalogging, giving the user a datafile compatible with all leading spreadsheets.	
<b>Autocalibrator</b>	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.	
<b>Accessories</b>	Baffle plate (to protect sensors) Interconnecting lead - 10 m standard 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

