

Detective + A transportable area monitor you can trust

- Loud and bright alarms
- Inherently rugged and reliable
- Wide sensor options including infra-red
- Built-in pump option
- Folding or fixed legs

Used singly or linked together,
Detective+ gives a loud and clear
alarm providing effective warning of
gas hazards. The rugged, water and
impact resistant design and clear
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 55,000 units worldwide

Versatile and user friendly

- Infra-red sensors available

 allows sampling of potentially high flammable gas levels and CO2
 infra-red sensors are unaffected by poisoning
- Built-in pump option provides fast response and extra sensor protection
- Display provides clear information, allows identification of gas hazard
- · Easy tracking of multiple hazards
- up to 60 hour battery operation
- Wide range of toxic gas sensors available

Extremely loud and clear alarms

- Wailing omni-directional siren, 104 dBA @1 metre
- High intensity red LED clusters provide visual alarm indication
- All linked Detective+ units indicate an alarm sensed by any one unit
- Units actually sensing alarm have faster LED flash
- Audible and visible confidence blip
- Time weighted average alarms for 8 hours and 15 minutes averages

Uniquely rugged, tripod construction

- Detectors are fully protected, even if device is overturned
- Raised detectors prevent water ingress
- · Easy and quick to set up
- Folding or fixed leg options provide easy storage and transportation



Transportable multi-gas monitor

Detective -



Specification

Weight	7.5 kg (19lb) 640 h x 455 w x 455 d mm (25.2 x 17.9 x 17.9 inches)			Datalogging	Adjustable sample rate, 100 hours @ 1 minute sample rate (maximum 6000 data points per channel) Logging of events, user and site data
Dimensions					
Typical measuring ranges and alarm settings (up to four gas measurement channels)	Range Levels 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		20% LEL 19% & 23% 10 ppm 35 ppm 2 ppm 0.5 ppm	Menu	Operating menu allows access to setting up of instrument operation Log Menu allows selection of Users and Sites from predefined lists, marking the log file with an event, and start or stop of data logging Configuration Menu allows selection of display and alarm modes, setting of alarms, zero and calibration and selection of flammable gas correction factors from predefined list.
	Ammonia C Ammonia C Hydrogen (non- flammable levels) Hydrogen cyanide C	0 – 50 ppm 0 – 1000 ppm 0 – 2000 ppm 0 – 25 ppm 0 – 10 ppm 0 – 1 ppm 0-1ppm	25 ppm N/A N/A 10 ppm 5 ppm 0.3 ppm 0.1ppm 1pm 5ppm N/A	Battery	6 V, 7.2 Ah Sealed lead acid battery pack Optional 6V, 12Ah high capacity pack
				Battery life	Standard instrument: Up to 36 hours assuming flammable/CO ₂ sensor fitted with 7.2Ah battery. Up to 60 hours with optional 12Ah battery pack
	Ozone Chlorine Dioxide Hydrogen Fluoride Ethylene Oxide Volatile Organic			Battery charging	Built-in battery charging circuit, dual rate 100 – 120 VAC and 200 - 250 V AC Input options available. (Safe Area operation only) Typical charge time: 12 hours
nfrared Sensors	Infrared sensors for flammable gas can be supplied as a single range, 0-100% LEL, utilising a single display channel, or as a dual range, 0-100% LEL/0-100% volume, which then occupies two display channels. CO ₂ sensors are supplied as 0-2% volume. Only one IR sensor can be fitted, and IR sensors can only be used in combination with oxygen and toxic sensors			Operating Temperature range	-20°C to +40°C (-4°F to 104°F).
				Humidity	0 – 95% RH non condensing
				Approvals	Europe : ATEX II 2G EEx ib d IIC T4 USA and Canada : Class 1 Division 1 Groups A, B, C, D (Pending)
				Standards	EN50014, EN50020, 94/9/EC UL913 and CSA 22.2
	Flammable Gas Fl	0-100% v/v	20% LEL None	Ingress protection	IP65 EN 50270
			PC Interface	Detective+ has an in-built PC interface, which can be connected to the serial port of a computer	
Typical response times	Methane 20 s, Oxygen 10 s, typical toxic gas 20 s, IR 30 s				using the optional RS232 lead. Portables PC software can be used to set alarms, clock, datalogging interval and password. Portables PC
Expected sensor life	Flammable 5 years, Toxic 3 years, Oxygen 2 year minimum, IR >5 years			also controls datalogging, giving graphical display of instrument log file and allows file export to spreadsheet.	
Audible alarms	Wailing, omni-directional siren, 104 dBA @ 1 metre.		Calibration	Detective+ can be routinely calibrated quickly	
Visible alarms	Three large, top-mounted red LED clusters and single red LED on control panel. In alarm mode LED clusters flash in quick succession LED clusters of linked Detectives repeating the alarm, flash more slowly than LED lights on those Detectives sensing the hazard. Slow flashing green LED indicates normal working. Rapid flashing green LED indicates low battery.				using its internal menu command, Portables PC or the Crowcon CheckBox IMH management system
				Accessories up to 100m available	Baffle plate (to protect sensors) Interconnecting lead - 10 m standard, longer lengths Computer lead - RS232 serial link Portables PC software
Display	High contrast LCD with back light 2 lines of 24 characters. 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				Aspirator Manual bulb and 2 m hose, both non- absorbent and hydrocarbon resistant Internal electric sampling pump option includes external water trap and 2m hose, longer lengths available on request
			Linked Detectives area monitoring	Up to 12 units can be linked to provide perimeter or	

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