Triple Plus+

Portable Monitor
Oxygen, Toxic and
Flammable Gases



Triple Plus+

With over 60,000 units in use worldwide, our customers have come to depend on the robust and reliable performance of the Triple Plus+.

The extremely durable Triax™ case and internal construction makes the Triple Plus+ an industry favourite known for the ability to withstand even the most demanding of applications.

Benefits

- Simple customisation to alternative flammable gas correction factors
- Wide range of sensor types allowing 4 gas detection
- QuickCal simple rapid calibration
- Peak hold capability for pre-entry checks

Triple Plus+ features:

Rugged construction

- Triax™ casing will not crack or shatter when dropped
- Unique internal design will resist the harshest treatment
- Full buoyancy makes recovery from water possible

Flexible

- Available for diffusion, manual aspiration or pumped sampling
- Interchangeable sensor modules
- Comprehensive datalogging with site and user names

Convenient and simple to use

- Large four channel simultaneous gas display
- Piercing 85dBA @ 1m
- Ultra bright LED alarms with top visibility
- Confidence blip, low battery and TWA warnings
- Simple Windows™ software interface



Triple Plus+

Triple Plus+ is a 4 gas personal monitor for oxygen, toxic and flammable gases used for personal safety around the globe.

Gases and Ranges

Ranges and alarms may vary by country and application which may be configured as required. Each channel can have up to three levels of alarm, including short and long TWA exposure levels for Toxic channels.

A choice of 12 flammable correction factors are available via Portables PC.

Other sensors may be available.

Gas	Range	Typical Alarm (UK)
Flam	0-100% LEL	20% LEL
H ₂ (electrochem)	0-100% LEL	20% LEL
CH,	0-100% vol	-
O ₂	0-25%	19%/23%
H ₂ S	0-50ppm	5ppm
CŌ	0-500ppm	30ppm
SO ₂	0-10ppm	1ppm
CI,*	0-5ppm	0.5ppm
NO,	0-10ppm	1ppm
PH,	0-2ppm	0.1ppm
NH,	0-50ppm	25ppm
H, (non-Flammable)	0-2000ppm	N/A
HCN	0-25ppm	10ppm
HCI	0-10ppm	1ppm
F,	0-10ppm	1ppm
HF	0-10ppm	2ppm
ETO	0-10ppm	5ppm
CIO,	0-1ppm	0.1ppm
NO	0-100ppm	25ppm

*Unpumped units only

Charging Options

The Triple Plus+ has two dual rate charging solutions supplied with UK, EU, US plug and without plug configurations. A vehicle adapter for in-vehicle charging is also available.

- Standard drop in charging cradle
- PC interface charger

NEW LIBRA Li-Ion Battery Pack

Available in new builds from April , the new LIBRA battery pack offers extended lifetime and charge cycles. Also designed to replace lead acid batteries in existing units, the LIBRA has solved the reduced lifetime effects of changes in Lead Acid technology during recent



years. Compatible with Triple Plus+ and Triple Plus+ IR units whist maintaining certification levels, the LIBRA charges with the existing charger units and takes only seconds to replace.

Contact Crowcon for further information.



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Specification		
Weight Dimensions	880 g (1.9 lb) 118 x 200 x 73mm (h x w x d) (4.65 x 7.8 x 2.9 inches) including strap hooks	
Approval Codes Europe North America	ATEX II 2G: Ex ib d IIC T4 Gb Class I Division 1, Groups A, B, C, D (Lead Acid only)	
Safety Standards Europe North America	EN50014, EN50020, 94/9/EC, SFA3009, EN50081-2, EN50270, EN50082-2 UL 913, CSA 22.2 No.157	
Ingress Protection	IP65	
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 years	
Audible Alarms	Piercing, rapid intermittent, piezo-electric tone, 85 dBA at 1 m Confidence blip (selectable) Distinctive double blip for low battery with user accept	
Visible Alarms	Ultra bright flashing red LED in gas hazard Slow flashing green LED indicates instrument is working Distinctive double flash of 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, pump failure, 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), logging of events, user and site	
NEW LIBRA	Li-lon rechargeable battery pack Battery Life: Standard instrument >12 hours Pumped instrument >10 hours ATEX and IECEx versions	
Lead Acid Battery	Lead Acid technology Battery Life: Standard instrument - 12 hours Pumped instrument - 10 hours UL only (LIBRA pending)	
Battery Charging	Dual rate 'drop in' charger Dual rate charger/PC interface	
Electric pump	Optional internal pump with on/off button	
Operating Temp. Range	-20°C to +50°C (-4°F to 122°F)	
Humidity	20–90% RH non-condensing	
PC Interface	RS232 connection via the interface charger. RS232/USB converter available. Portables PC also controls datalogging, giving the user a choice of direct graphical output or a datafile compatible with all leading spreadsheets	
Calibration	Triple Plus+ can be routinely calibrated using Portables PC software or Crowcon Checkbox IMH	
Accessories	Supplied as standard: manual, shoulder strap and allen keys (pumped units include additional flow plate, 2m hose and pouch)	
Optional Accessories	Leather carry case, straight and telescopic probes, water trap, baffle plate, aspirator, calibration flow adaptor and hose	

Specification

Crowcon reserves the right to change the design or specification of this product without notice

Area reserved for distributor stamp

