

For flammable hydrocarbons or carbon dioxide, oxygen and toxic gases

Triple Plus + IR

Incorporating the latest infrared detection technology Triple Plus + IR extends the capability of the established Triple Plus range for detection of carbon dioxide as a toxic gas, or for the measurement of hydrocarbons in inert backgrounds at both % volume and % LEL levels for tank purging and inert atmosphere monitoring. The infrared hydrocarbon sensor is equally suitable for detection of hydrocarbons in air for confined space entry and other safety applications.

Infrared hydrocarbon sensor

- Volume % measurement for purging applications
- % LEL measurement in air or inert background
- Single or dual range measurement
- Calibration for methane, propane, butane, pentane or ethylene
- No poisoning effects
- No sensor burnout at high concentration
- Fail safe
- Long sensor lifetime reduced cost of maintenance

Infrared CO₂ sensor

- Range 0 2%
- Alarms at 0.5% and 1.5%

Convenient and easy to Use

- Large four channel simultaneous display
- Loud and clear alarms
- · Visual and audible confidence indication
- Low battery alarm
- Rugged and reliable

Flexible

- Available for diffusion, manual aspirator or pumped sampling
- Interchangeable sensors
- Comprehensive Datalogging with user and site names
- Simple Windows™ software interface to PC



Triple Plus + IR



Specification

Weight	900 g (2 lb)			
Dimensions	118 h x 167 w x 73 d mm (4.65 x 6.6 x 2.9 inches)			
Ranges and alarms	Up to three levels of alarm are available per channel. Flammable Gas can be supplied as a single range, 0-100% LEL, or as a dual range, 0-100% LEL/0-100% volume, which then occupies two channels. CO ₂ is supplied as 0-2%. Only one IR sensor can be fitted. Triple Plus + IR can have up to four channels.			
	Flammable Gas Flammable Gas	Range 0-100% 0-100% volume	Alarm 20% LEL No alarm	
	Flammable Gas calibrations are available for methane, propane, butane or ethylene.			
	CO ₂ Oxygen Hydrogen sulphide Carbon Monoxide Sulphur dioxide Chlorine Ammonia For a full list of othe	0-500ppm 0-10ppm 0-5ppm 0-50ppm	Alarm 0.5/1.5% 19%/23.5% 5ppm 30ppm 2ppm 0.5ppm 25ppm	
Typical response times	Crowcon. IR 20 s, Oxygen 10 s, Typical Toxic Gas 20 s.			
Expected sensor life	IR 5 years, Toxic 3 years, Oxygen 2 years.			
Audible alarms Visible alarms	Piercing, rapid intermittent, piezo-electric tone, 85 dBA at 1 m. Confidence blip (selectable). Distinctive double blip for low battery. 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.			
		a comigaration ac		
Datalogging		ate, 100 hours @ 1 0 data points per	minute sample	
Datalogging Battery	displayed. Adjustable sample rarate (maximum 600	ate, 100 hours @ 1 0 data points per user and site. 2 Ah, interchange	minute sample channel),	
	displayed. Adjustable sample rarate (maximum 600 logging of events, use Sealed lead acid 1	ate, 100 hours @ 1 0 data points per user and site. 2 Ah, interchange y pack. tt 12 hours.	minute sample channel),	

Battery charging	Dual rate 'drop in' charger for instrument. Dual rate charger/PC interface for instrument and battery pack.		
Electric pump	Optional internal pump with on/off button.		
Operating temp. range	-20°C to +50°C (-4°F to 122°F).		
Humidity	0 – 95% RH non condensing.		
Approval codes	Europe	ATEX⟨€x⟩ I M2: EEX lb d I	
	USA and Canada	ATEX(x) II 2G: EEx ib d IIC T4 Class 1 Division 1, Groups A, B, C, D	
Standards	Europe	EN50014, EN50020, 94/9/EC	
	USA and Canada	UL 913, CSA 22.2	
Ingress protection	IP65		
RF radiation	EN50081-2, EN50270		
RF immunity	EN50082-2, EN50270		
PC Interface	PC access is achieved through an RS232 serial link by locating the instrument in the charger/PC interface. The Windows™ compatible software is then used to adjust or set: all alarms, levels of alarm (3 for all channels, oxygen 2 descending 1 ascending), clock, password, time zones, user and site. Data log management software gives the user a choice of direct graphical display or a datafile compatible with all leading spreadsheets.		
Autocalibrator	Triple Plus + IR 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	non- resis		

Charger Options



Accessories





PO1014 Issue 5 04/04

Tel: +1 513 831 3877 or 1-800-5-CROWCON Fax: +1 513 831 4263 Email: sales@crowconusa.com Web Site: www.crowcon.com Rotterdam Office
Crowcon Detection Instruments Ltd
Vlambloem 129
3068JG, Rotterdam
Netherlands
Tel: +31 10 421 1232
Fax: +31 10 421 0542
Email: crowcon@crowcon.net
Web Site: www.crowcon.net

Singapore Office
Crowcon Detection Instruments Ltd
Block 192 Pandan Loop
#05-01 Pantech Industrial Complex
Singapore 128381
Tel: +65 6745 2936
Fax: +65 6745 0467
Email: sales@crowcon.com.sg
Web Site: www.crowcon.com