CROWCON
Detecting Gas Saving Lives

Tetra 3

Specialist Four Gas Personal Monitor

Rugged

Wide range of sensor options

Easy to use

Tetra 3

Specialist Four Gas Personal Monitor

Designed with the user in mind, the top mount display, full function data and event logs, audible, visual and vibrating alarms deliver top end performance in a small and lightweight package. Gases include the most common four (carbon monoxide, methane, oxygen and hydrogen sulphide), also an expanded range: ammonia, ozone, sulphur dioxide, hydrogen filtered carbon monoxide (for steel plants) hydrogen cyanide, other flammable gases and IR carbon dioxide (for safe area use only).

Robust

Rugged impact resistant design provides extra shock and vibration protection	Provides protection in the harshest environments
Water and Dust resistant to IP65 and IP67	
Can be submerged in water	

Effective warning

95 dB audible alarm	Ensures clear warning facilitating prompt evacuations from hazard zones
Vivid red/blue visual alarm	
Vibrating alarm	

Reliable

Proven sensor technology and software operation	Provides reliability you can trust and has the power to cover you for an extended shift
Clear calibration-due warning	
Lithium-ion battery provides 14 hours continuous operation from a single charge with no memory effects	

User friendly

Single button operation for all functions	Can be operated with gloved hands
Top mounted, backlit display of all gas readings, diagnostics and battery life	'At a glance' operating status

Product description

Single button operation, small size and clear top-mounted display make the T3 a favourite in the market amongst those working in today's most arduous industrial environments.

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Gases and ranges

Gas	Range	Typical alarm (UK)
*Flammable	0- 100% LEL	20%
Oxygen (O_2)	0-25%	19/23.5%
Hydrogen Sulphide (H_2S)	0-100ppm	5ppm
Carbon Monoxide (CO)	0-500ppm	20ppm
Sulphur dioxide (SO_2)	0-20ppm	0.5ppm
Ozone (O_3)	0-1ppm	0.1ppm
Ammonia (NH_2)	0-100ppm	25ppm
**Carbon dioxide (CO_2)	0-5%	0.5%
Carbon monoxide (CO) H_2 compensated	0-500ppm	20ppm
Hydrogen Cyanide (HCN)	0-30ppm	1ppm

* Methane, Pentane, Propane, Butane, Ethylene, Hydrogen and others available, contact Crowcon for further options

** T3 is available in a safe area CO_2 version offering 0-5% carbon dioxide measurement. The CO_2 sensor replaces the flammable option and can be supplied with oxygen and toxic sensors.

Further gas types will be available - contact Crowcon with your requests.

Specification

Size		114 x 71 x 48mm (tapers to 20mm) (4.5 x 2.8 x 1.9ins)
Weight		295g (10.4oz)
Alarms	Audible	95dB multiple alarm sounds allow selection of distinctive tones for different alarm levels
	Vibrating	Internal vibrating alarm
Display	Main display	Graphic LCD with backlight, giving simultaneous display for all gas channels. Graphic symbols for battery (with proportional indication of remaining operation time), healthy operation or fault warning. Start up indication when calibration is due, overdue, or service required.
Display mode	Normal display	Real time gas concentration levels
	Display recall	Peak readings and TWA
Data logging	Timed datalogging	50 hours at 1-min data rate (>12,000 data logs of 4 channels)
	Threshold logging	Starts after adjustable pre-set level
	Event logging	>5,000 events
Battery		Rechargeable Li-ion battery
Operating time		Based on four-gas instrument fitted with flammable sensor: A 5 hour charge from flat provides at least 12 hours of continuous use. A 12-hr charge provides 14 hours of continuous use
Sampling		Diffusion or hand aspirator
Operating temp range		-20°C to +55°C (-4°F to +131°F)*
Humidity		15-95% RH non-condensing **
Ingress protection		IP65 and IP67
Certification	Europe	ATEX II 2G Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +55°C) Baseefa05ATEX0187
	International	IECEx Ex db ia IIC T4 Gb (-20°C ≤ Ta ≤ +55°C) BAS05.0059
	North America	CSA Class I, Division 1 Groups A, B, C and D
Safety standards	Europe	EN60079-0, EN60079-11, EN60079-1, 2014/34/EU
	North America	CSA 22.2
	Operating standards	EN50270
PC interface		RS232 connection from interface module in charger RS232/USB converter available
Calibration		Can be routinely calibrated using Portables PC
Accessories		Integral alligator clip
Optional accessories		Universal harness plate, shoulder strap, chest harness, aspirator assembly (flow plate, bulb and 2m/6ft tubing), fixed and telescopic sample probes, and an in-line water trap
Charging options		Single way drop-in charger with multi-region power supply (UK, USA, EU & Australian plug adaptors included) or inline 110V/220V supply; Single way drop-in charger with options as above including PC interface; 5 way multi-charger with universal power supply; Vehicle adapter for in-vehicle charging; Universal charger with status indication for vehicle, wall or desk mounting; can be used with multi region power supply or vehicle charging lead.

* Toxic and oxygen sensors are not rated for continuous operation at high temperatures. Consult Crowcon if operating temperatures are likely to exceed 40°C (104°F) for extended periods.

** Toxic and oxygen sensors RH specifications vary, consult Crowcon for specific operating humidities

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