• Up to four gases measure • Digital interchangeable i-møduk

 Loud 90dBA audible fam. able tones Unique

 Built in vibrating atarm as • Rugged and robust, IP6 596g

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interface to PC

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is 4 gas display with auto-

éss protec-

for full flexibility

visual alarm

matic backlight • Peak mode opér

WA reading

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Simulⁱ

Tetra Intrinsically Safe Personal Multigas Monitor

Tetra, is a unique multigas monitor for the detection of flammable gases, oxygen and toxic gases; Tetra offers flexibility, assurance, robustness and real value for money. Intrinsically safe, Tetra is the only portable gas detector with embedded software designed to the exacting requirements of IEC 61508-3 guaranteeing reliable and dependable operation.







INVESTOR IN PEOPLE



Designed using the latest technologies hple to use, reliable, robust and fully weather protected.

sense modules guarantee simplicity and flexi-Single button operation and intelligent bility of use.

construction and self checking software assure reliable gas The shockproof internal detection in the most onments. Ardular of

Tetra, a personal manit

Reliable

- True single button operation the most user friendly product available
- Li-ion rechargeable battery gives full 12 hours operation
- Easy to read backlit graphic display for gas readings and diagnostics
- Simple indications of operating status can be viewed at a glance
- 30 day countdown warning of calibration due date

Flexible

- Fully interchangeable intelligent sensor modules
- Available with internal electric sampling pump
- Rechargeable and alkaline battery versions

Robust

- Tough plastic construction with flexible internal assembly to resist shock and vibration
- Overmoulded rubber for added protection
- Water and dust resistant to IP65

Assurance

- 94dBA audible alarm (@30cm)
- Piercingly bright dual red/blue visual alarm
- Internal vibrating alarm
- Two levels of instantaneous alarm
- Time weighted average alarm for 8 hours and 15 minute averages



Castle Group Limited

Salter Road, Scarborough, NotitSTorkSDe, 1200,1 ANS 1/18/054ph 104 + SA(D) 15/23/0842502 59er video 13/201583728 email: sales@castlegroup.co.uk, internet: www.castlegroup.co.uk

To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>> www.raeservices.com/services/quote.htm

Specification

Specification						
Weight	498g (1.1lb)			Operating temp. range	-20oC to +55oC (-4oF to +131oF)	
Dimensions	122x128x57mm (43/4 x5x21/2 inches) re- chargeable 134x128x57mm (51/4 x5x21/2 inches) non- rechargeable			Humidity	0-99% RH	
				Ingress Protection	IP65	
Gas				Approval Codes		
	Range Alarm UK/ Alarm US ROW			Europe:	ATEX II 2G EEx iad IIC T4 (Tamb -20oC to +55oC)	
Flammable Oxygen	0-100%LEL 0-25%	20%LEL 19/23.5%	10%LEL 19.5/23.5%	USA	BASEEFA 03ATEX0193 UL/cUL Class I Division 1 Groups A, B, C, D.	
Hydrogen Sulphide Carbon Monoxide	0-50ppm 0-500ppm	5ppm 30ppm	10ppm 35ppm	Safety Standards		
Sulphur Dioxide	0-20ppm	2ppm	2ppm	Europe	EN50014, EN50020, EN50018, 94/9/EC	
Chlorine Nitrogen Dioxide	0-20ppm 0-10ppm	0.5ppm 3ppm	0.5ppm 3ppm	USA & Canada	UL913, CSA22.2, 152	
Ammonia Ozone	O-100ppm O-1ppm	25ppm 0.1ppm	25ppm 0.1ppm	Operation Standards	EN50270, EN5((2)71, IEC61508, EN61779	
Hydrogen	0-1000ppm	N/A	N/A		\land	
Hydrogen Cyanide Hydrogen Chloride	0-25ppm 0-10ppm	5ppm 1ppm	5ppm 1ppm	PC Interface	IR link for M222 connection. USB/RS232 Con- verter available. Partables P6 software package	
Hydrogen Fluoride Phosphine	0-10ppm 0-5ppm	1ppm 0.2ppm	1ppm 0.2ppm		provides foll configuration controls calibration and accessed the Pata and Event files.	
Fluorine	0-1ppm	0.1ppm	0.1ppm	Autocalibrator		
Phosgene Ethylene oxide	0-1ppm 0-10ppm	0.1ppm 1ppm	0.1ppm 1ppm		Tetre yan be routinely calls ated using the Castle Actocalibrator II in coolynction with the Portables	
Nitric oxide	0-100ppm	25ppm	50ppm		PP of twore.	
Other ranges and alarm levels are available on request. Each gas channel can have two instantaneous alarm levels set. Toxic channels also have				Accessories	Tetra is suppled with an integral belt/pocket clip.	
Time Weighted Average alarms.						
Flammable gas calibration is available for methane, propane, butane, pen- tane, hydrogen and ethylene as standard.						
Typical (style. In line versions for 400V or 230V AC have flying lead for fitment of stitzble mains plug A vehicle lighter socket charger is available.		
response times	Flammable 20 s, Toxic gas 20 s, Oxygen 10s			Optional access dise include: universal harness plate, shoulder strap,		
Audible Alarms	94dBA @ 30cm (1ft) Multiple alarm sounds allow selection of distinctive tones for different alarm levels			chest harnese, carry case, aspirator assembly (flow plate bulb and		
				/2m/6ft/tubing), fixed and telescopic sample probes, and an in-line wa- ter trap		
Visible Alarms Dual colour red/blue flashing LED vin (gas haz-				Zas Dest Kit		
	ard					
Vibrating alarm	Internal vibrating alarm			The Zas Test Kit provides a simple and convenient means of carrying out either a pre-use (bump) test to verify that a Tetra is working within		
Display				acceptable limits, or a simultaneous four gas calibration for flammable gas, oxygen, carbon monoxide and hydrogen sulphide.		
	neous display for all gas channels. Graphic symbols for battery (with proper bonal indication of remaining operation times, pump operation, heat w/operation or fault warging. Start up indication when calibration is due within 30 days, combration over due, or service			The kit includes a 34 litre gas bottle containing a		
				multigas mix with a special 'Trigger' regula-		
				tor, a magnet and a clip-on flow plate con- figured either for diffusion or pumped		
	required.	\bigvee ,	$\langle \rangle \rangle$	units, all supplied in case. Separate kits	a convenient carry	
Display Mode	Normal display	for real time	gas concentration lev-	diffusion and pumpe		
Datalogging	els. Display accill for Peer readings and TWA Tinved datalogging: 58-bours at 1-minute data rate Eventyogging: >1500, events			Swiping the magnet	t past the Tetra	
(display initiates a special test mode, then the gas is applied. The Tetra evalu-		
Battery Types	Rechargable Light pattery Non rechargeate pack 3xAA Alkaline cells			ates the response t	to the gas compo-	
				nents against values stored in its mem- ory and if it is within defined limits the		
Operating time	Based on pumped four gas unit with flammable sen- sor			Tetra signals a successful test. A test failure brings up an advisory calibration warning.		
	Rechargeable 12 hours minimum					
	Non-rechargeable 11 hours minimum Hand aspirator or internal electric sampling pump			If the user performs a manually selected zero		
Sampling				prior to teat initiation Tetra offers the option of		
				running a simultane	eous	
				four-gas calibration rather than just a v		
				tion test		

Castle Group Limited Salter Road, Scarborough, N**MIST**ori**ISO**; **IEO**; **IEO**; **IANE**, **IMCSe**; **NME_+S4(D)** email: sales@castlegroup.co.uk, internet: www.castlegroup.co.uk

tion test