

# Tetra

### A personal monitor you can trust

Designed using the latest technologies, Tetra is simple to use, reliable,

robust and fully weather protected.

Single button operation and intelligent sensor modules guarantee

simplicity and flexibility of use.

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

Tetra, a personal monitor you can trust.

#### 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 available

#### 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

### 1.800.561.8187



### information@itm.com

### Tetra

#### Specification

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Weight	498g (1.1lb)		
Dimensions	122x128x57mm (4 <sup>3</sup> /₄x5x2 <sup>1</sup> /₂ inches) rechargeable 134x128x57mm (5 <sup>1</sup> /₄x5x2 <sup>1</sup> /₂ inches) non-rechargeable		
Gas Flammable Oxygen Hydrogen Sulphide Carbon Monoxide Sulphur Dioxide Chlorine Nitrogen Dioxide Ammonia Ozone Hydrogen Dioxide Hydrogen Cyanide Hydrogen Cyanide Hydrogen Cyanide Hydrogen Cyanide Hydrogen Chloride Hydrogen Fluoride Phosphine Fluorine Phosgene Ethylene oxide Nitric oxide Other ranges and alarm can have two instantane Weighted Average alarm Flammable gas calibrati pentane, hydrogen and	eous alarm levels ns. ion is available fo	set. Toxic channe	10%LEL 19.5/23.5% 10ppm 35ppm 2ppm 0.5ppm 3ppm 25ppm 0.1ppm N/A 5ppm 1ppm 0.2ppm 0.1ppm 0.2ppm 0.1ppm 0.1ppm 50ppm ach gas channel els also have Time
Typical response times	Flammable 20 s, Toxic gas 20 s, Oxygen 10s		
Audible Alarms	94dBA @ 30cm (1ft) Multiple alarm sounds allow selection of distinctive tones for different alarm levels		
Visible Alarms hazard	Dual colour red/blue flashing LED pair in gas		
Vibrating alarm	Internal vibrating alarm		

Display 128x64 graphic LCD with backlight, giving simultaneous display for all gas channels. Graphic symbols for battery (with proportional indication of remaining operation time), pump operation, healthy operation or fault warning. Start up indication when calibration is due within 30 days, calibration overdue, or service required. **Display Mode** Normal display for real time gas concentration levels. Display recall for Peak readings and TWA Datalogging Timed datalogging: 50 hours at 1-minute data rate Event logging: >1500 events **Battery Types** Rechargable Li-ion battery Non rechargeable pack 3xAA Alkaline cells Based on pumped four gas unit with flammable sensor Operating time Rechargeable 12 hours minimum Non-rechargeable 11 hours minimum

Sampling Hand aspirator or internal electric sampling pump

Operating temp. range	-20°C to +55°C (-4°F to +131°F)	
Humidity	0-99% RH	
Ingress Protection	IP65	
Approval Codes Europe: USA	ATEX II 2G EEx iad IIC T4 (Tamb -20°C to +55°C BASEEFA 03ATEX0193 UL/cUL Class I Division 1 Groups A, B, C, D.	
Safety Standards Europe USA & Canada	EN50014, EN50020, EN50018, 94/9/EC UL913, CSA22.2, 152	
Operation Standards	EN50270, EN50271, IEC61508, EN61779	
PC Interface	IR link for RS232 connection. USB/RS232 Converter available. Portables PC software package provides full configuration control, calibration and access to the Data and Event files.	
Autocalibrator	Tetra can be routinely calibrated using the Crowcon Autocalibrator II in conjunction with the Portables PC software.	
Accessories	Tetra is supplied with an integral belt/pocket clip. Pumped units are supplied with a sampling kit (flowplate and 2m(6ft) tubing)	

Plug in charging power supplies are available in UK, European or US style. In line versions for 110V or 230V AC have flying lead for fitment of suitable mains plug. A vehicle lighter socket charger is available.

Optional accessories include: universal harness plate, shoulder strap, chest harness, carry case, aspirator assembly (flow plate bulb and 2m/6ft tubing), fixed and telescopic sample probes, and an in-line water trap.

### Gas Test Kit

The Gas 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 acceptable limits, or a simultaneous four gas calibration for flammable gas, oxygen, carbon monoxide and hydrogen sulphide.

The kit includes a 34 litre gas bottle containing a multigas mix with a special 'Trigger' regulator, a magnet and a clip-on flow plate configured either for diffusion or pumped units, all supplied in a convenient carry case. Separate kits are available for diffusion and pumped instruments.

Swiping the magnet past the Tetra display initiates a special test mode, then the gas is applied. The Tetra evaluates the response to the gas components against values stored in its memory and if it is within defined limits the Tetra signals a successful test. A test failure brings up an advisory calibration warning.

If the user performs a manually selected zero prior to teat initiation Tetra offers the option of running a simultaneous four-gas calibration rather than just a verification test

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