Tetra

Personal Multigas Monitor Oxygen, Toxic & Flammable Gases









TETRA

Tetra is a single button, reliable and robust multigas monitor with optional internal pump. Featuring intelligent sensor modules, shockproof construction and self checking software, Tetra is simple to use and assures reliable gas detection in the toughest of environments.

Simple

- Single button operation
- Easy to read backlit display for gas readings and diagnostics
- Clear calibration due warning
- Rechargeable Li-ion battery gives 12 hours of continuous operation

Alarms

- Loud 94dBA audible alarm
- · Ultra bright dual red/blue visual alarm
- Vibrating alarm

Robust

- Rugged plastic housing with flexible internal assembly to resist shock and vibration
- · Durable over moulded rubber for added protection
- · Water and dust resistant to IP65

Flexible

- · Optional built-in pump
- · Rechargeable and alkaline battery versions available
- · Compatible with Crowcon Portables PC Software
- · Fully interchangeable intelligent sensor modules



Tetra is a personal multigas monitor with an optional built-in pump designed to reliably detect gas in the toughest of environments.

Gases and Ranges

Required ranges and alarms may vary by country and application and can be configured as required. Each gas channel can have two instantaneous alarm levels set. Toxic channels also have Time Weighted Average (TWA)

Flammable gas calibration is available for methane, propane, butane, pentane, hydrogen and ethylene as standard.

Tetra is also available in a safe area CO₂ version offering 0-5% carbon dioxide measurement.

| Typical ranges and alarms | | |
|---------------------------|------------|---------------------|
| Gas | Range | Standard Alarm (UK) |
| Flammable | 0-100% LEL | 20% LEL |
| Oxygen | 0-25% | 19/23% |
| Hydrogen sulphide | 0-100ppm | 5ppm |
| Carbon monoxide | 0-500ppm | 30ppm |
| Sulphur dioxide | 0-20ppm | 1ppm |
| Chlorine* | 0-20ppm | 0.5ppm |
| Nitrogen dioxide | 0-20ppm | 1ppm |
| Ammonia | 0-100ppm | 25ppm |
| Ozone* | 0-1ppm | 0.1ppm |
| Hydrogen | 0-1000pm | N/A |
| Hydrogen cyanide | 0-25ppm | 5ppm |
| Hydrogen fluoride | 0-10ppm | 1ppm |
| Phosphine | 0-5ppm | 0.2ppm |
| Fluorine | 0-1ppm | 0.1ppm |

Carbon dioxide Gas Test Kit

Phosgene

* unpumped only

0.1ppm

0.5%

Approval Codes

Europe

Europe

International

North America

North America

Safety Standards

Operation Standards

The Gas Test Kit provides a simple and convenient means of carrying out either a pre-use (bump) test or a simultaneous four gas calibration (flammable, oxygen, hydrogen sulphide and carbon monoxide only).

0-1ppm

0-5%

PC Interface and Calibration

Tetra can be routinely calibrated either manually or by using Crowcon Portables PC software or Checkbox IMH packages, providing the user with full configuration control, calibration and access to data and event logs files. An IR link is available using a RS232/USB connection from the PC.

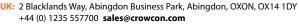
Charging Options

The Tetra can be supplied with:

- Plug in charging power supplies with UK, EU or US plug or in-line 110V/230V supply
- 10-way multicharger with 90-260V in-line power supply with either UK, EU or US mains lead
- Vehicle lighter socket charger for in-vehicle charging



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| 498g (1.1lb) Rechargeable 122 x 128 x 57mm (4.75 x 5 x 2.25 inches) Non-rechargeable 134 x 128 x 57mm (5.25 x 5 x 2.25 inches) | |
|--|--|
| Flammable 20 s, Toxic gas 20 s, Oxygen 10 s | |
| 94dB Multiple alarm sounds allow selection of distinctive tones for different alarm levels | |
| Dual colour red/blue flashing LED in gas hazard | |
| Internal vibrating alarm | |
| 128 x 64 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. | |
| Normal display for real time gas concentration levels. Display recall for the Peak readings and TWA. | |
| Timed datalogging: 50 hours at 1-minute data rate (>3,000 data logs of 4 channels) Event logging >1500 events | |
| Rechargeable Li-ion battery Non rechargeable pack 3xAA Alkaline cells | |
| Rechargeable - 12 hour minimum based on pumped four gas unit with flammable sensor | |
| Hand aspirator or internal electric sampling pump | |
| -20°C to +55°C (-4°F to +131°F) Toxic and oxygen sensors are not rated for continuous operation at high temperatures. Consult Crowcon if operating temperature are likely to exceed 40°C (104°F) for extended periods. | |
| 20-90% RH | |
| IP65 | |
| | |

Calibration Tetra can be routinely calibrated manually using

UL913, CSA22.2, 152

BASEEFA 03ATEX0193

BAS04.0024

the menu, using Crowcon Protables PC software or automatically using Checkbox IMH.

ATEX II 2G Ex ia d IIC T3 Gb (-20° C \leq Ta \leq 55°c)

CSA UL/cUL Class I Division I Groups A, B, C, D, T3C

EN50270, EN50271, IEC61508, EN61779, EN45544

IECEX Ex ia d IIC T3 Gb (-20°C ≤ Ta ≤ 55°c)

EN60079-0, EN60079-11, EN60079-1, 94/9/EC

Accessories Tetra is supplied with an integral belt/pocket clip. Pumped units are supplied with a sampling kit (flowplate and 2m (6ft) tubing).

Optional Accessories 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.

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

Area reserved for distributor stamp

