

Tetra 3

Specialist Four Gas Personal Monitor

Rugged

Wide range of sensor options

Easy to use



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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

Water and Dust resistant to IP65 and IP67

Can be submerged in water

Provides protection in the harshest environments

Effective warning

95 dB audible alarm

Vivid red/blue visual alarm

Vibrating alarm

Ensures clear warning facilitating prompt evacuations from hazard zones

Reliable

Proven sensor technology and software operation

Clear calibration-due warning

Lithium-ion battery provides 14 hours continuous operation from a single charge with no memory effects

Provides reliability you can trust and has the power to cover you for an extended shift

User friendly

Single button operation for all functions

Top mounted, backlit display of all gas readings, diagnostics and battery life

Can be operated with gloved hands

'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.



Gases and ranges

| Gas | Range | Typical alarm (UK) |
|---|-------------|--------------------|
| *Flammable | 0- 100% LEL | 20% |
| Oxygen (O ₂) | 0-25% | 19/23.5% |
| Hydrogen Sulphide (H ₂ S) | 0-100ppm | 5ppm |
| Carbon Monoxide (CO) | 0-500ppm | 30ppm |
| Sulphur dioxide (SO ₂) | 0-20ppm | 1ppm |
| Ozone (O ₃) | 0-1ppm | 0.1ppm |
| Ammonia (NH ₃) | 0-100ppm | 25ppm |
| **Carbon dioxide (CO ₂) | 0-5% | 0.5% |
| Carbon monoxide (CO) H ₂ compensated | 0-500ppm | 30ppm |
| Hydrogen Cyanide (HCN) | 0-30ppm | 10ppm |

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

** T3 is available in a safe area CO₂ version offering 0-5% carbon dioxide measurement. The CO₂ 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, EN50271, EN50104, EN45544, EN60079, IEC61508 |
| 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