TIGER

Handheld VOC detector

The Tiger handheld VOC detector is a revolutionary handheld gas detection instrument for the rapid, accurate detection of volatile organic compounds (VOCs) within the harshest of environments.

Tiger incorporates Ion Science patented photoionisation detection (PID) sensor technology with humidity resistance and anti-contamination design, proven to dramatically extend run time in the field.

A robust VOC detector Tiger provides a dynamic detection range of 0 to 20,000 parts per million (ppm) with a minimum sensitivity of 0.001ppm (1 ppb), offering the widest measurement range of any other VOC detector on the market.

This handheld VOC detector has the fastest response time on the market of just two seconds and is just as quick to clear down. The instrument can be connected directly to a PC via the USB offering extremely fast data download capabilities.

Tiger has been designed for the safe replacement of batteries in hazardous environments. Long-life rechargeable Li-ion batteries give up to 24 hours of use. Fast battery charging allows the instrument to be fully charged in 6.5 hours, while 8 hours of use can be achieved from 1.5 hours charge.

Low-cost filters and lamps can be easily changed in seconds, minimising instrument downtime. Inexpensive disposable parts mean the Tiger VOC detector has the lowest running costs on the market.

Tiger is a fully upgradeable VOC detector with multiple functions to choose from. A base unit can be upgraded with data logging, health and safety and ppb options, remotely, without needing to be returned to the factory.

Tiger offers simple, one-handed operation for easy VOC detection. Its rugged design and protective, removable rubber boot withstand the harshest environments.

The large, clear back-lit display allows for easy viewing in any light condition. An integrated torch is designed for directing the instrument's probe into dimly lit areas.

Ready to use on start-up the Tiger VOC detector needs no complex set up procedures via a PC to perform basic functions. Its simple-to-use software features require minimal user training.

KEY FEATURES

- **Humidity resistant PID sensor for the most challenging environments**
- **Anti-contamination design for extended run time**
- **Detects VOCs from 0 up to 20,000 ppm**
- **Minimum sensitivity 0.001 ppm (1 ppb)**
- **Fast 2-second response time and quick clear down**
- **Detects over 480 VOCs and toxic compounds**
- **Fast start-up with no complicated set-up**
- **Battery life up to 24 hours continual use**
- **Simple to use – minimal training required**
- **Direct USB connectivity for fast data download**

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STANDARD ACCESSORIES

- Rechargeable battery (Li-ion)
- Battery charger
- Mains adaptor
- Rubber boot
- Explorer case
- Carbon zero filter assembly
- PTFE filter disc (dust filter)
- Removal tool MiniPID stack

- PID lamp cleaning kit
- Lanyard (wrist strap)
- USB cable
- Calibration adaptor
- Quick start guide & downloadable instrument manual

SPECIFICATIONS   Specifications subject to change without notice

Minimum Resolution*	1 ppb or 0.001 mg/m³
Maximum Reading**	20,000 ppm or 20,000 mg/m3
Response Time	T90 < 2 seconds
Accuracy*	± 5% display reading ± one digit
Linearity*	± 5% display reading ± one digit
Intrinsically Safe Approvals	II1GExiaIICT4Ga Tamb = – 15 °C =Ta =+45 °C (with alkaline battery pack) ITS09ATEX26890X IECEx ITS 10.0036X 3193491 conforms to UL Std. 913, 61010-1 & Certified to CAN/CSA Std. C22.2 No. 61010-1
Battery Life	Li-ion: life up to 24 hours continual use Alkaline: (Duracell Procell MN 1500) life up to 8.5 hours continual use
Lamps	10.6 eV Krypton PID lamp (standard) and 11.7eV lamps available
Data Logging*	Including date / time: 120,000 points
Communication	Direct USB 1.1 connection
Calibration	Standard calibration 100 ppm isobutylene custom calibration capability

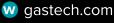|	
Alarm	• Flashing LED and 95 dBA at 300mm • (12") audible sounder selectable vibrating alarm • Pre-programmed TWA and STEL* • Pre-programmed with over 480 gases*
Flow Rate	220 ml/min in ambient conditions (with blocked flow alarm)
Temperature	Operating: -20 to 60 °C, -4 to 140 °F (non Intrinsically Safe)
Humidity	0-99% RH (non condensing)
Protection	Designed to IP65 (heavy rain) C E 1180 EMC tested to EN61326-1:2006, EN50270:2006 & CFR 47:2008 Class A
Weight & Dimensions	Instrument without probe Width: 340 x Height: 90 x Depth: 60 mm (13.4 x 3.6 x 2.4") Standard case 420 x 320 x 97 mm (16.5 x 12.5 x 3.8") Instrument weight 0.72 kg (1.56 lb) Packed weight: 5 .5 kg (12 lb)
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Part No.	PTXSLBMP-0000