TIGER XT

Rapid, accurate detection of
Volatile Organic Compounds (VOCs),
within the most challenging environments



Ultimate Performance

The Tiger XT's photoionisation detection (PID) technology has been independently verified as best performing on the market for speed, accuracy, resistance to humidity and contamination. Its patented Fence Electrode Technology and anti-contamination design ensures optimal performance within humid and heavily contaminated atmospheres, extending run time in the field.

The Tiger XT is the most advanced handheld VOC detector on the market with the widest measurement range, accurately detecting gases down to 1 part per billion (ppb) up to 20,000 part per million (ppm)*. The Tiger delivers a rapid two-second response time, with fast clear-down between measurements. The Tiger XT handheld VOC gas detector can detect over 750 VOCs and toxic compounds.

Key Features

- **Improved Robust Design**
  The instrument's rugged body can withstand harsh environments.
- **Large Internal Gas Table**
  Internal gas table has over 750 VOCs and toxic compounds.
- **IP65 Ingress Protection**
  Protection against a range of conditions and weather temperatures.
- **Fast Response Time & Clear Down**
  <2 second response time, one of the fastest and most accurate on the market.
- **Instantaneous Alarms**
  Bright visible alarms: RED & AMBER with loud sounder (95 dBA at 300 mm (12 inches)).
- **Humidity Resistant and Anti-Contamination Design**
  Patented Fence Electrode Technology ensures optimal performance and extends run time.



Tiger XT Features



- Low cost consumables including filters
- An integrated torch designed for dimly lit areas and flashing LEDS (low & high alarms)
- Loud alarms (Sounder 95 dBA at 300 mm)
- A large, clear backlit display for easy viewing in any light condition
- Vibrations on alarm
- Large clear keypad designed for one handed operation
- Improved robust design
- Li-ion battery life up to 24 hours (charge time 8 hours)
- Intrinsically safe and meets ATEX, IECEx, North American and Canadian Standards

Upgradeable Features

The Tiger XT is fully upgradeable, this allows users to add further functionality if required. Upgradable features include Health and Safety mode, PPB Sensitivity, Data Logging, Single Log Only (Push to Log) and Multi Log Only. Tiger XT is fully upgradable without having to return the instrument to the factory. Remote upgrades that can be carried out locally, without having to return the instrument to the factory

5 Year Extended Warranty

The Tiger XT can be registered online which extends warranty to up to 5 years. Register your instrument online within one month of purchase to extend the warranty.

Pioneering Gas Sensing Technology. ionscience.com

Common Applications

- Environmental monitoring
- Soil and landfill VOC detection
- Confined space entry
- Emergency response
- Wing tank entry
- Medical gases within hospital
- Fugitive emissions



Spares & Accessories



PID Lamp (10.6 eV)

Replacement 10.6 eV PID lamp for the Tiger XT.

P/N LA4TM600

MiniPID Electrode Stack (White)

Replacement white electrode stack for the Tiger XT PID sensor.

P/N A-846267



MiniPID 2 Sensor (10.6 eV, 6-Pin)

Replacement PID sensor for the Tiger XT.

P/N MP6SX6BXU2



Multi Adaptor with Probe Extension (300 mm)

Flexible 300 mm probe extension for sampling hard to reach areas with the Tiger XT.

P/N A-912336



Multi Adaptor with Probe Extension (1000 mm)

Flexible 1000 mm probe extension for sampling hard to reach areas with the Tiger XT.

P/N A-912337



Multi Adaptor with Pipe Connector

Features a quick-release connector for attaching longer lengths of tubing with a 4 mm internal diameter and 6 mm external diameter.

P/N A-912338

Technical Specifications*

	10.6 eV	11.7 eV
Minimum sensitivity***	1 ppb or 0.001 mg/m³	0.6 ppm (600 ppb)*
Maximum reading (range)**	20,000 ppm or 20,000 mg/m³***	9,000 ppm***#
Accuracy***	±5% or ± one digit*	±12% display reading
Response time T90	<2 seconds	<6 seconds
Lamp lifetime	10,000 hours	≥500 hours****
Temperature range	-20°C to +60°C	0°C to +60°C
Intrinsically safe approvals	Ⓔx II 1G Ex ia IIC T4 Ga Class 1 Division 1 Groups A, B, C & D, T4	Tamb = -25 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack) Tamb = -25 °C ≤ Ta ≤ +40 °C (with alkaline battery pack)	IECEx SGS 25.0002X SGS25ATEX0003X SGS25UKEX0004X SGSNA/25/CA/00001X
Humidity	0 to 99% RH (non condensing)	
Lamps	10.6 eV Krypton PID lamp (standard), 10.0 eV and 11.7 eV lamps available	
Data logging*	120,000 points including date and time stamp	
Communication	Direct USB 1.1 connection	
Calibration	2 and 3 point calibration (via calibration kit accessory)	
Battery life	Li-ion: Typical operating time of up to 24 hours Charge time: Typically 8 hours Alkaline: 3 x AA, typically 8.5 hours life	
Flow rate	≥220 ml/min (with blocked flow alarm)	
Protection	Designed to IP65 EMC tested to EN61326-1:2013 & EN50270:2015 & CFR 47:2008 Class A	
Alarm	Flashing LEDs Amber (low alarm) Red (high alarm) Sounder 95 dBA at 300 mm (12 inches) Vibration on alarm Pre-programmed TWA and STEL*	
Instrument dimensions (with probe)	91 (w) x 370 (h) x 60 (d) mm	
Instrument weight	870g	

*Model and gas dependent.
**Maximum reading is achieved with certain analytes such as ethanol.
***Specifications are based on isobutylene calibrations at 20 °C and 1000 mBar.
All specifications quoted are at calibration point and under the same ambient conditions.
****Based on continuous running.
#For indicative measurement only. Quoted accuracy achievable up to 2,000 ppm.
For more accurate detection, calibration around concentration of interest is recommended.
This publication is not intended to form the basis of a contract and specifications can change without notice.

ION Science Ltd
The Hive, Butts Lane, Fowlmere, Cambridgeshire, SG8 7SL, UK
T: **+44 (0) 1763 208503**
E: **info@ionscience.com**
W: **www.ionscience.com**

V1.5

Pioneering Gas Sensing Technology. ionscience.com