



TIGER XTL

Pioneering Gas Sensing Technology.
ionscience.com





Tiger XTL

Low cost Volatile Organic Compound (VOC) detector with reliable market leading accuracy!



Ultimate Performance

The Tiger XTL is a ground breaking low cost entry level VOC detector with all the essential functions you need to detect VOCs. The instrument has the lowest running costs on the market with inexpensive disposable parts, lamps and filters. This variant of the hugely popular Tiger XT VOC detector is low on cost but high on performance. Its revolutionary, patented PID sensor technology with resistance and anti-contamination design provides market leading accuracy and run time. Combined with 24 hour battery life, these features maximise field time by minimising erroneous readings in high humidity and drift in hard environments.

The Tiger XTL portable VOC gas detector is ETL (Electrical Testing Laboratories), KGS (Korean Gas Safety), IECEx (International Electrotechnical Commission System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres) certified. It is also ATEX approved meaning the instrument is intrinsically-safe.

Key Features

- >> Improved Robust Design**
The instruments rugged body can withstand harsh environments
- >> Long Rechargeable Battery Life**
When fully charged, the lithium-ion battery can last up to 24 hours
- >> IP65 Ingress Protection**
Protection against a range of conditions and weather temperatures
- >> Fast Reponse 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"))
- >> Humidity Resistant and Anti-Contamination Design**
Patented Fence Electrode Technology ensures optimal performance and extends run time



Tiger XTL Features



Minimal Instrument Downtime

The Tiger XTL has been designed with the user in mind for ease of use and servicing. Batteries can be replaced in potentially explosive environments due to the innovative Intrinsically Safe design. Low cost filters and lamps can be easily changed in minutes, minimising instrument downtime.

Typical Applications

Typical applications for the Tiger XTL include: Environmental Monitoring, Soil Contamination Detection, VOCs in Landfill, Confined Space Entry, Emergency Response, Wing Tank Entry, Fumigation Gases & Medical Gases.

2 Year Extended Warranty

The Tiger XTL can be registered online which extends warranty to up to 2 years. Register your instrument online within one month of purchase to [extend the warranty](#).



Technical specifications

Minimum resolution*

- 0.1 ppm

Maximum reading

- 5,000 ppm

Response time

- T90 < 2 seconds


Accuracy

- $\pm 5\%$ display reading or \pm one digit

Linearity*

- 5% display reading or \pm one digit

Intrinsically safe approvals

-  I 1G Ex ia IIC T4 Ga
- Tamb = $-25^{\circ}\text{C} \leq \text{Ta} \leq +45^{\circ}\text{C}$
(with lithium ion battery pack)
- Tamb = $-25^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$
(with alkaline battery pack)
- ITS-I22ATEX35111X
- IECEx ITS 22.0025X
- ITS22UKEX0635X
- 3193491 conforms to
UL Std. 913, 61010-1
- Certified to CAN/CSA
Std. C22.2 No. 61010-1

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

Lamps

- 10.6 eV Krypton PID lamp (standard)

Data logging*

- Push-to-log, 128 zones, 80,000 data points

Calibration

- Standard calibration 100 ppm isobutylene
- Custom calibration capability

Alarm

- Flashing LED and 95 dBA at 300mm (12") audible sounder
- Selectable vibrating alarm

Flow rate

- ≥ 220 ml/min (with blocked flow alarm)

Temperature

- Operating: -20 to 60°C , -4 to 140°F
- Humidity: 0-99% RH (non condensing)

Protection

- Designed to IP65
- EMC tested to EN61326-1:2013 & EN50270:2015 & CFR 47:2008 Class A

Weight & dimensions

- 370 mm (H) x 91 mm (W) x 60 mm (D)
- 870g

TIGER XTL V1.0 This publication is not intended to form the basis of a contract and specifications can change without notice. All specifications quoted are at calibration point and under the same ambient conditions. Specifications are based on isobutylene calibration at 20°C , 90% RH and 1000 mBar
*Model dependant.

Manufactured by:

ION Science Ltd
The Hive, Butts Lane,
Fowlmere,
Cambridgeshire,
SG8 7SL, UK

T +44 (0) 1763 208503