



Independently  
verified as best  
performing PID  
technology



# TIGER<sup>LT</sup>

**Low cost VOC  
detection with  
market leading  
accuracy.**



The leading technology of TIGER<sup>LT</sup> provides the most accurate, reliable detection of VOCs giving the right results and maximizes field time.

### Best available photoionization detection (PID) sensor

- PID independently verified as best performing on the market
- Accurate results across all environments from 0.1 - 5000 ppm
- Patented humidity resistance to 99% RH - no compensation needed
- Anti-contamination design minimises drift and extends run time
- Fastest 2 second response time and rapid clear down

### Minimize downtime

- Anti-contamination design reduces calibration frequency
- Li-ion battery for up to 24 hours continuous operation
- 6.5 hours battery charge time maximises uptime
- Batteries field replaceable, even in explosive environments
- Filters and lamps replaceable in minutes
- Simple icon driven menu requires minimal user training

### Ease of use

- User selectable response factors for direct concentration readout
- Intuitive, easy to use software
- Large clear keypad for easy operation when wearing gloves
- Ergonomic design allows simple one handed operation
- Large, clear visual display
- Torch and back-lit keypad for low light conditions
- Push-to-log data logging, 128 zones, 80,000 points

### Safety

- 95 dBA, bright LED and vibration alarms alert you to gases present
- Intrinsically safe; meets ATEX, IECEx, UL and CSA standards

### Low cost

- Entry level VOC detector with all the essential functions
- Inexpensive consumables and parts for low cost operation

The leading technology of the TIGER LT makes it the most advanced, low-cost handheld VOC detector on the market giving you the most accurate, reliable results you can count on, every time. Whether deciding to wear PPE or checking head space for compliance TIGER LT gives confidence that the right decision will be made in all environments, humid or dusty.

This variant of the hugely popular TIGER VOC detector is low on cost but high on performance. Its revolutionary, patented PID sensor technology with humidity resistance and anti-contamination design provide 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 harsh environments.

The world's leading PID manufacturer, ION Science's PID sensor technology has also received independent verification as the best performing on the market for its speed of response, accuracy and linearity.

TIGER LT accurately detects gases from 0.1 to 5,000 ppm, has the fastest response time on the market of just 2 seconds, and is as quick to clear down. Its push-to-log data logging stores up to 80,000 data points in up to 128 user selectable zones.

The instrument 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. Fast battery charging allows the instrument to be fully charged in just six hours.

TIGER LT offers simple, one handed operation even when wearing multiple pairs of thick gloves. Its rugged design and protective, removable rubber boot withstand harsh environmental conditions.

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. The illuminated keypad activates when light is low.

TIGER LT is a ground breaking, low cost entry level PID with all the essential functions you need for VOC detection. The instrument has the lowest running costs on the market with inexpensive disposable parts, lamps and filters.

### Extend your instrument warranty

Warranty can be extended from one to two years if the instrument is registered online within one month of purchase. Visit [www.ionscience.com/instrument-registration](http://www.ionscience.com/instrument-registration)

### Applications include

- Environmental Monitoring • Soil Contamination • VOCs in Landfill • IAQ
- Health & Safety • Confined Space Entry • First Response • Wing Tank Entry
- VOC Leak Detection • Fumigation Gases • Fugitive Emissions • Medical Gases

### Accessories

An extensive range of accessories is also available. For more information visit: [www.ionscience.com/tigerlt](http://www.ionscience.com/tigerlt)

## TECHNICAL SPECIFICATION

### MINIMUM RESOLUTION\*

0.1 ppm

### MAXIMUM READING

5,000 ppm

### RESPONSE TIME

T90 < 2 seconds

### ACCURACY\*

± 5% display reading ± one digit

### LINEARITY\*

± 5% display reading ± one digit

### INTRINSICALLY SAFE APPROVALS

Ⓜ II 1G Ex ia IIC T4 Ga

Tamb = -15 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack)

Tamb = -15 °C ≤ Ta ≤ +40 °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

### LAMPS

10.6 eV Krypton PID lamp (standard.) 10.0 eV and 11.7 eV lamps available

### 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 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)

CE 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")

Instrument weight 0.72 kg (1.56lb)

All specifications are against isobutylene calibration at 20 °C, 90% RH and up to 3000 ppm unless otherwise stated. \*Gas dependent.

*"The Tiger has impressed me with its reliability in humid environments. It's a nice size instrument, easy to use and is an easy piece of equipment to calibrate. It is an extremely good product, and the correspondence between Ion Science and myself has been prompt and precise."*

**Jeremy Kinman, Hydrogeologist, Artbury Environmental Engineering**

### Ion Science INC.

4153 Bluebonnet Drive,

Stafford, TX 77477, USA

Toll free: 1 877 864 7710

E: [info@ionscienceusa.com](mailto:info@ionscienceusa.com)

[www.ionscience.com](http://www.ionscience.com)

