

# TIGER LT

HANDHELD VOC DETECTOR



LOW COST VOC DETECTOR,  
WITH MARKET LEADING ACCURACY.

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

Unrivalled Gas Detection<sup>ion</sup>.





THE LEADING TECHNOLOGY OF TIGER LT  
PROVIDES THE MOST ACCURATE,  
RELIABLE DETECTION OF VOCs  
GIVING THE RIGHT RESULTS WHILST  
MAXIMISING FIELD TIME.

## Best available photoionisation detection (PID) sensor

- PID independently verified as best performing on the market
- Accurate results across all environments from 0 - 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

## Minimise 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 and North American and Canadian 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 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 over 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 specifications

### 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.)

### 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)
- 1180
- EMC tested to EN61326-1:2006, EN50270:2006 & CFR 47:2008 Class A

### Weight & dimensions

- Instrument (with probe)
- Width: 91.4 x Height: 370 x Depth: 61 mm (3.59 x 14.56 x 2.4")
- Instrument weight 0.75 kg

TIGERLT V1.2 This publication is not intended to form the basis of a contract and specifications can change without notice.

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

## Manufactured by:

### ION Science Ltd

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"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**

# Diensten van EURO-INDEX

**EURO-INDEX is fabrikant, importeur en distributeur van diverse A-merken op het gebied van test- en meetinstrumenten. Daarnaast leveren wij een groot aantal diensten om het gebruik van deze instrumenten in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van de instrumenten, maar ook kennisdeling via de EURO-INDEX Academy en verhuur van instrumenten.**

## Geautoriseerd Service Centrum

EURO-INDEX b.v. is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

## Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



**Kijk voor een overzicht van al onze diensten op [euro-index.nl/diensten](http://euro-index.nl/diensten)**



## Mobiele Service

Naast de vaste kalibratielaboratoria in Capelle aan den IJssel en Zaventem beschikken wij ook over laboratoria op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

## KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app).

## Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

## EURO-INDEX Academy

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- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Mobiele Service

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