TIGER LT

HANDHELD VOC DETECTOR

LOW COST VOC DETECTOR,
WITH MARKET LEADING ACCURACY.

ionscience.com

Unrivalled Gas Detection.

ION

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

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 emissionsMedical gases

Accessories

An extensive range of accessories is also available. For more information visit: 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 oC, 90% RH and up to 3000 ppm unless otherwise stated. *Gas dependent.

Manufactured by:

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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