TIGER LT
HANDHELD VOC DETECTOR

Best available photoionization 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 minimizes drift and extends run time
- Fastest 2 second response time and rapid clear down

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

Minimize Downtime

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

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

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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 maximize field time by minimizing 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.

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.

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

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 emissions
- Medical gases

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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 $^{\circ}$C ≤Ta ≤+45 $^{\circ}$C (with lithium ion battery pack)
- Tamb = - 15 $^{\circ}$C ≤Ta ≤+40 $^{\circ}$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 $^{\circ}$C, -4 to 140 $^{\circ}$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

Standard Kit
- Tiger LT Instrument with rubber boot
- Rechargeable Battery (Li-ion)
- Battery Charger
- Mains Adaptor
- Compact Case
- PTFE Filter Discs
- Removal Tool MiniPID Stack
- PID Lamp Cleaning Kit
- USB Cable
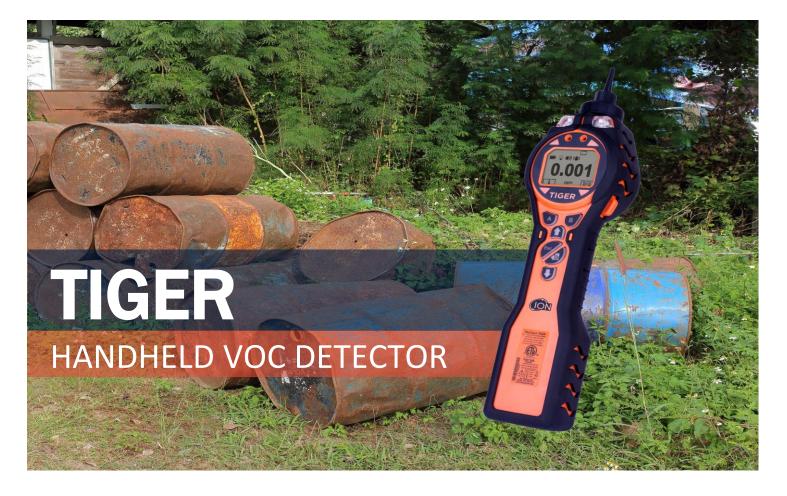- Quick Start Guide

Premium Kit
- Tiger LT Instrument with rubber boot
- Rechargeable Battery (Li-ion)
- Battery Charger
- Mains Adaptor
- Rugged Case
- Carbon Zero Filter Assembly
- Calibration Adaptor
- PTFE Filter Discs
- Removal Tool MiniPID Stack
- PID Lamp Cleaning Kit
- Lanyard
- USB Cable
- Quick Start Guide

Tiger LT Instruments	Description
PTLSLBMR-0000	Tiger LT with Rechargeable Battery- Standard Kit
PTLSLBMP-0000	Tiger LT with Rechargeable Battery- Premium Kit

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

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TIGER

HANDHELD VOC DETECTOR

Best available photoionization (PID) detection

- PID independently verified as best performing on the market
- Humidity resistant and anti-contamination design
- Dynamic range ppb to 20,000 ppm
- Fast response time and clear down
- Internal gas table with over 700 VOCs & toxic compounds

Ease of Use

- Intuitive, easy to use software
- Easy access sensor, electrode stack and lamps
- Large clear keypad and slim design allows one handed operation
- Keypad backlit in low light conditions

Minimize Downtime

- Fast start up with no complicated set up
- Battery life up to 24 hours continual use
- Simple icon driven menu requires minimal user training
- Direct USB connectivity for fast data download
- Instrument easily upgradeable via Ion Science website

Safety

- Accurate results in all environmental conditions
- Intrinsically safe; meets ATEX, IECEx, North American and Canadian standards

Low Cost Operation

- Inexpensive consumables and parts
- 5 year warranty when instrument registered online

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Tiger is the most advanced hand held VOC detector on the market with the widest measurement range, accurately detecting gases down to ultra low ppb levels up to 20,000 ppm. Tiger has the fastest response time of just two seconds, and is as quick to clear down. Its internal gas table contains over 700 response factors.

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

Tiger is ready to use with no complicated programming. The set up procedure can be done via a PC to perform basic functions. Direct connection from the instrument to the computer via a standard USB cable offers the fastest communication and data download available.

Batteries can be replaced in potentially explosive environments due to the innovative intrinsic safe design. Low cost filters and lamps can be easily changed in seconds, minimizing instrument downtime. Fast battery charging allows the instrument to be fully charged in 6.5 hours.

TIGER PROVIDES RAPID, ACCURATE DETECTION OF VOCS WITH EXCEPTIONAL RESISTANCE TO HUMIDITY AND CONTAMINATION.

Tiger offers simple, one handed operation. Its rugged design and protective, removable rubber boot withstand the harshest environments. 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 comes on when light is low.

Tiger is fully upgradeable. This allows lower cost instruments to be purchased with the option of adding functionality if needed, without having to return it to the factory for modification.

Extend your instrument warranty

Tiger has the lowest running costs on the market with inexpensive disposable parts, lamps and filters. Warranty can be extended from two to five years if the instrument is registered online within one month of purchase. Visit www.ionscience.com/instrument-registration

Applications Include

- Environmental monitoring
- Soil contamination detection
- Medical gases within Hospitals
- IAQ measuring industrial volatiles
- Leakage in fuel and chemical storage
- STEL & TWA monitoring
- Screening tool for First Responders

- Confined space entry
- VOCs in landfill
- VOC leak detection
- Wing tank entry
- Health & Safety
- Fumigation gases
- Fugitive emissions

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Minimum resolution*
• 1 ppb or 0.001 mg/m3

Maximum reading**
• 20,000 ppm or 20,000 mg/m3 (gas dependent)

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 ^{0}C ≤Ta ≤+45 ^{0}C (with lithium ion battery pack)
• Tamb = - 15 ^{v}C ≤Ta ≤+45 ^{v}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
• Alkaline: (Duracell Procell MN 1500) life up to 8.5 hours continual use

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

Data logging*
• Including date / time: 120,000 points

Communication
• Direct USB 1.1 connection

Alarm
• Flashing LED and 95 dBA at 300mm (12") audible sounder
• Selectable vibrating alarm
• Pre-programmed TWA and STEL*
• Pre-programmed with over 700 gases*

Flow rate
• 220 ml/min in ambient conditions (with blocked flow alarm)

Temperature
• Operating: -20 to 60 ^{v}C, -4 to 140 ^{0}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: 340 x Height: 90 x Depth: 60 mm (13.4 x 3.6 x 2.4")
• Standard case
• 367 x 89 x 90 mm (14.45 x 3.54 x 2.36")
• Instrument weight 0.72 kg (1.56lb)
• Packed weight: 5 .5kg (12lb)

Included in Tiger Kit***
• Tiger Instrument with rubber boot
• Rechargeable Battery (Li-ion)
• Battery Charger
• Mains Adaptor
• Rugged Case
• Carbon Zero Filter Assembly
• Calibration Adaptor
• PTFE Filter Discs
• Removal Tool MiniPID Stack
• PID Lamp Cleaning Kit
• Lanyard
• USB Cable
• Quick Start Guide

Tiger Instruments	Description
PTXSLBMP-0005	Tiger Rechargeable Battery - PPM / H&S / Data Logging
PTXSLBMP-0007	Tiger Rechargeable Battery - PPB / H&S / Data Logging

Firmware Upgrades	Description
861301	Tiger Firmware Upgrade -PPB Sensitivity

All specifications are against isobutylene calibration at 20ºC, 90% RH and up to 3000 ppm unless otherwise stated. *Model and gas dependent.
**Maximum reading is achieved with certain analytes such as ethanol.
***Kit does not include a spare rechargeable battery pack as pictured. Spare battery sold separately.

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