



**REPSS, Inc.**  
Instrumentation Specialists

# 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



REPSS Corporate Office  
1656 Townhurst Dr, Suite E  
Houston, TX 77043  
**Unrivaled Gas Detection**

15

**Sales & Service**  
866-657-3777  
customerservice@repss.com  
www.repss.com

V2.2  
Issue 2018

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 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](http://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



REPSS Corporate Office  
1656 Townhurst Dr, Suite E  
Houston, TX 77043  
**Unrivaled Gas Detection**



**Minimum resolution\***

- 1 ppb or 0.001 mg/m<sup>3</sup>

**Maximum reading\*\***

- 20,000 ppm or 20,000 mg/m<sup>3</sup> (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 °C ≤ Ta ≤ +45 °C (with lithium ion battery pack)
- Tamb = -15 °C ≤ Ta ≤ +45 °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 °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: 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 20°C, 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.



REPSS Corporate Office  
1656 Townhurst Dr, Suite E  
Houston, TX 77043

Unrivaled Gas Detection