



Independently  
verified as best  
performing PID  
technology



# Tiger

**Most advanced  
PID for Volatile  
Organic  
Compounds.**



**Tiger provides rapid, accurate detection of  
VOCs with exceptional resistance to humidity  
and contamination.**

### **Best available photoionisation detection (PID)**

- PID independently verified as best performing on the market
- Humidity resistant and anti-contamination design
- Unrivalled, accurate detection range from 1 ppb - 20,000 ppm
- Fast response time and clear down
- Internal gas table with over 480 VOCs & toxic compounds

### **Minimise 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

### **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

### **Safety**

- Accurate results in all environmental conditions
- Intrinsically safe; meets ATEX, IECEx, UL and CSA standards

### **Low cost operation**

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

\*Terms and conditions apply

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 480 response factors.

The instrument's photoionisation 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 difficult working conditions, 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 design. Low cost filters and lamps can be easily changed in seconds, minimising instrument downtime. Fast battery charging allows the instrument to be fully charged in six 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.

### Applications include

- Environmental monitoring • Soil contamination detection • VOCs in landfill
- IAQ measuring industrial volatiles • Leakage in fuel and chemical storage
- Health & Safety • STEL & TWA monitoring • Confined space entry
- Screening tool for First Responders • VOC leak detection • Wing tank entry
- Medical gases within Hospitals • Fumigation gases • Fugitive emissions

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## TECHNICAL SPECIFICATION

### 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 dependant)

### RESPONSE TIME

T90 < 2 seconds

### ACCURACY \*

± 5% display reading ± one digit

### LINEARITY \*

± 5% display reading ± one digit

### INTRINSICALLY SAFE APPROVALS

ATEX II 2G Ex ib IIC T4 (-15 °C ≤ Ta ≤ +45 °C)

IECEX ITS 10.0036X

US and Canadian approvals

### 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) 10.0eV and 11.7eV lamps available

### DATA LOGGING \*

Including date / time: 120,000 points

### COMMUNICATION

Direct USB 1.1 connection

### CALIBRATION

Standard calibration 100ppm isobutylene

Custom calibration capability

### ALARM

Flashing LED and 95 dBA at 300mm (12") audible sounder

Selectable vibrating alarm

Pre-programmed TWA and STEL\*

Pre-programmed with over 480 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)

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")

Standard case

420 x 320 x 97 mm (16.5 x 12.5 x 3.8")

Instrument weight 0.72 kg (1.56lb)

Packed weight: 5.5kg (12lb)

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.

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

