Tiger

Most advanced PID for Volatile Organic Compounds.

Independently verified as best performing PID technology

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
- Dynamic range ppb to 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 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, 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.

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 • 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

Accessories
Tiger is supplied with an exclusive range of accessories. For more info visit: www.ionscience.com/tiger

TECHNICAL SPECIFICATION

MINIMUM RESOLUTION*
1 ppb or 0.001 mg/m^3

MAXIMUM READING**
20,000 ppm or 20,000 mg/m^3 (gas dependant)

RESPONSE TIME
T90 < 2 seconds

ACCURACY*
± 5% display reading ± one digit

LINEARITY*
± 5% display reading ± one digit

INTRINSICALLY SAFE APPROVALS
Ⓔx II 1G Ex ia IIC T4 Ga
Tamb = - 15 ºC ≤Ta ≤+45 ºC (with lithium ion battery pack)
Tamb = - 15 ºC ≤Ta ≤+45 ºC (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

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 ºC, -4 to 140 ºF (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 ºC, 90% RH and up to 3000 ppm unless otherwise stated. *Model and gas dependent. **Maximum reading is achieved with certain analytes such as ethanol.

Tiger V1.9. This publication is not intended to form the basis of a contract and specifications can change without notice.

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