

# TIGER SELECT

## Rapidly Detects Benzene And Total Aromatic Compounds (TACs).

Rapidly Detects Benzene And  
Total Aromatic Compounds (TACs)  
Providing The Most Accurate,  
Reliable Data Available.

### Best available photoionisation (PID) detection

- PID independently verified as best performing on the market
- Unrivalled sensitivity detects down to ppb levels
- Selectively detects benzene with Ion Science benzene pre-filter tube
- Continuous readings shown as max level reached
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation

### Minimise downtime

- Ready to use instantly with no complicated set up
- Large battery capacity gives several days of use
- Fast charge capability gets you up & running quickly
- Simple menu requires no user training
- Fastest data download via true USB connection
- Easily upgrade your instrument via the web 24/7

### Ease of use

- Self explanatory software & calibration routine
- Easy change sensor, electrode stack & lamps
- Large user friendly key pad
- Simple, one-handed operation

### Low cost operation

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



A revolutionary hand-held detector, Tiger Select can be operated either with a benzene pre-filter tube to detect benzene selectively, or without to detect total aromatic compounds (TAC). For simplicity and ease of use, the Tiger Select has been split into two, user-friendly modes: Basic and Advanced. Both modes are user-selectable.

Utilising the high output Ion Science 10.0 eV lamp configuration, a reading for total aromatic compounds (TACs) is seen immediately on start-up. Should aromatics be detected, an Ion Science benzene pre-filter tube can be easily attached to ensure rapid detection and selective measurement of benzene. Tiger Select can also provide 15 minute short term exposure limits (STELs) and 8 hour time weighted averages (TWAs) for TACs.

Throughout the measurement process, Tiger Select continues to display real time data, ensuring the final reading represents the full value of actual benzene present. \* Benzene concentrations are displayed down to ppb levels, giving you the most accurate, reliable data you can count on.

In addition, the unique MiniPID 2 sensor incorporates both anticontamination technology and Fence Electrode technology for extended operation in difficult working environments.

Tiger Select can also be used in standard operational mode without the use of a benzene pre-filter tube to deliver active indications of volatile organic compounds (VOCs), including benzene at concentrations as low as 1 ppb benzene equivalent.

Additionally, Tiger Select may be used alongside the CubTAC personal PID monitor to provide the ultimate solution for benzene detection. Visit [www.ionscience/cub](http://www.ionscience/cub) for more details.

## Applications include

- Confined Space Entry Prescreening During Refinery & Plant Maintenance
- Marine Spill Response
- Refinery Down-Stream Monitoring
- Hazardous Material Response
- Total Aromatic Compounds (TAC) Detection At Loading Docks & Barge Operations

## Accessories

Tiger Select is available with an exclusive range of accessories. For more information call ERE Inc. at 1-888-287-3732.

\* *within quoted specification*

\* -15 to +45 °C (+5 to +113 °F) when used in an intrinsically safe environment

Note: Fence Electrode Technology is produced by Ion Science Ltd, and protected by U.S. Patent No. 7,046,012. EP 1474681, other patents pending.

## TECHNICAL SPECIFICATION

AIR MONITORING

### MINIMUM RESOLUTION PPM MODEL

Select ppm  
Standard running mode 0.1 ppm  
TAC 0.01 ppm  
Tube mode 0.001 ppm

### MINIMUM RESOLUTION PPB MODEL

Select ppb  
Standard running mode 0.001 ppm  
TAC 0.001 ppm  
Tube mode 0.001 ppm

### MAXIMUM READING

Standard mode up to 20,000 ppm or 20,000 mg/m<sup>3</sup> (gas dependent)  
Tube mode 200 ppm or 639 mg/m<sup>3</sup> benzene

### RESPONSE TIME

130 seconds at 20 °C (variable) Progressive indication of benzene breakthrough is displayed in real time

### ACCURACY

+/- 10% display reading  
+/- one digit benzene

### LINEARITY

+/- 5% display reading  
+/- one digit

### INTRINSICALLY SAFE APPROVALS

Ex 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, charge time 6.5 hours  
Alkaline: 3 x AA, typically 8.5 hours life

### LAMPS

10.0 eV Krypton PID lamp

### DATA LOGGING

> 120,000 data log points including date and time stamp

### COMMUNICATION

Direct USB 1.1

### CALIBRATION

2 and 3 point calibration (via calibration kit accessory)

### ALARM

Flashing LED's Amber (low alarm) Red (high alarm)  
Sounder 95 dBA at 300 mm (12")  
Vibration on alarm  
Pre-programmed TWA and STEL

### FLOW RATE

≥ 220 ml/min

### 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 AND DIMENSIONS

Instrument (probe fitted, no tube attached)  
Height: 465 x Width: 89 x Depth: 61 mm (18.3 x 3.5 x 2.4")  
Instrument weight: 0.75 kg  
Standard case  
Packed weight: 5 kg (176 oz)

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