



# TIGER SELECT

## Benzene & Total Aromatic Compounds in one Instrument



The revolutionary Tiger Select; two-mode operation for rapid benzene and Total Aromatic Compounds providing accurate, reliable data you can count on.

### Key Benefits:

- Immediate results on start up - no need to wait for readings
- Fast to detect Total Aromatic Compounds (TACs)
- Detects benzene in other compounds with selective Draeger Benzene pre-filter tube
- Also detects benzene without the need for a specific tube in areas of benzene gas only
- Detects down to ppb levels
- Continuous readings shown on display until max level is reached
- Independently verified as best performing PID technology

### Key Features

- Exceptionally easy-to-use and intuitive software
- Large, clear backlit display and keypad
- Easy to operate even when wearing thick gloves
- Lightweight enabling easy one-handed operation

### Versatility

- Rugged design to withstand the harshest environments
- Backlight responds to ambient light conditions
- Battery life up to 24 hours

Advanced Gas Sensing Technologies  
[www.ionscience.com](http://www.ionscience.com)

A revolutionary hand-held detector, Tiger Select has two basic modes of operation capable of detecting TACs without the tube attachment, or benzene with the benzene pre-filter tube.

Utilising the high output Ion Science 10.0 eV detection system, a reading for Total Aromatic Compounds (TACs) is seen immediately on start-up. Should aromatics be detected, a benzene pre-filter tube can be easily attached to ensure rapid detection and selective measurement of benzene. The unit can also provide 15 minute STEL and 8 hour 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 VOC sensor incorporates both Anti-contamination technology and Fence Electrode technology for extended operation in difficult working environments.

Tiger Select can also be used in standard Tiger operational mode, without the use of a benzene pre-filter tube, to deliver active indications of VOCs including benzene at concentrations as low as 1 ppb benzene equivalent. For more information see the PhoCheck Tiger Brochure.

#### Applications:

- Total Aromatic Compound (TAC) detection at loading docks and barge operations
- Confined space entry pre-screening during refinery and plant maintenance
- Refinery down-stream monitoring
- Hazardous material response
- Marine spill response

Note: PhoCheck is a US registered trademark, no. 2880994, and UK registered trademark, no. 2212457. 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

### RESOLUTION

10 ppb or 0.033 mg/m<sup>3</sup> benzene

### MAXIMUM READING

40 ppm or 130 mg/m<sup>3</sup> benzene in tube mode  
At least 4000 ppm in TAC mode

### ACCURACY

±10% display reading ± one digit benzene


### LINEARITY

± 5% to 40 ppm benzene

### RESPONSE TIME

120 seconds. Progressive indication of benzene breakthrough is displayed in real time

### INTRINSICALLY SAFE APPROVALS

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

IECEx ITS 10.0036X

US and Canadian approved

### BATTERY LIFE

Li-ion: life up to 24 hours, charge time 6.5 hours

Alkaline: 3 x AA, up to 8.5 hours life

### PID LAMPS

Kr PID lamp with 10.0 eV filter pellet

### 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 300mm (12") Vibration on alarm

Pre-programmed TWA and STEL\*

### FLOW RATE

220 ml/min (150 cc/min 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 (probe fitted, no tube attached)

Length: 465 x Height: 89 x Depth: 61 mm (18.3 x 3.5 x 2.4")

Standard case

Packed weight: 5 kg (176 oz)



ION SCIENCE is ISO9001:2008 certified

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