



# TIGER SELECT

HANDHELD BENZENE DETECTOR

RAPIDLY DETECTS BENZENE &  
TOTAL AROMATIC COMPOUNDS (TACS).

[ionscience.com](http://ionscience.com)

Unrivalled Gas Detection.







**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 and 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 and calibration routine
- Easy change sensor, electrode stack and lamps
- Large user friendly key pad
- Simple, one-handed operation

## Low cost operation

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

\*Terms and conditions apply







A revolutionary hand-held detector, Tiger Select can be operated either without a benzene pre-filter tube to detect total aromatic compounds (TAC) or with a benzene pre-filter tube to detect benzene selectively. 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.

\* within quoted specifications

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 anti-contamination 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 the ION Science website for more information.

### Applications

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

### Accessories

Tiger Select is available with an exclusive range of accessories. Visit the ION Science website for more information.



# Technical Specifications

## Minimum sensitivity (PPM model)

- Standard running mode: 0.1 ppm
- TAC mode: 0.01 ppm
- Tube mode 0.01 ppm (res. 0.001 ppm)

## Minimum sensitivity (PPB model)

- Standard running mode: 0.001 ppm
- TAC mode: 0.001 ppm
- Tube mode: 0.01 ppm (res. 0.001 ppm)

## Maximum reading\*\*

- Standard mode up to 20,000 ppm or 20,000 mg/m<sup>3</sup>\*
- 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 (tube mode)

## 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
- Class 1 Division 1. Approval for Groups A, B, C & D, T4

## 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 LEDs 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 (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)
- EMC tested to EN61326-1:2006, EN50270:2006 & CFR 47:2008 Class A

## Weight & 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)

\*Model and gas dependent.

\*\*Maximum reading is achieved with certain analytes such as ethanol.

\*\*\*All specifications quoted are at calibration point and under the same ambient conditions.

Specifications are based on Benzene calibrations at 20 °C and 1000mBar

Tiger Select V2.1 This publication is not intended to form the basis of a contract and specifications can change without notice.

## Manufactured by:

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"We needed an instrument to detect the levels of VOC and benzene when we open our piping system. Our central region in Canada has been using the product for a year or so now so we were confident that the instrument was right for us compared to the Draeger CMS chip detectors which we had used in the past."

**Bruce Sangster, Enbridge Pipelines**

# Les services d'EURO-INDEX

EURO-INDEX fournit des services pour tous les instruments de sa gamme de fournitures et offre des services, de la connaissance et du personnel hautement qualifié pour l'entretien (préventif), la réparation et le calibrage de vos instruments de mesure.

## Centre de Service Agréé.....

EURO-INDEX est un Centre de Service Agréé pour toutes les marques représentées.

Autrement dit, vos instruments sont traités par du personnel formé et compétent, qui dispose des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument ainsi que la certification (ATEX, EN50379, etc.) restent valables.

## Laboratoire de maintenance et de calibrage .....

EURO-INDEX dispose d'un laboratoire de maintenance et de calibrage particulièrement moderne, titulaire d'une accréditation conforme à la norme NEN-EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105.



## MQS® .....

MQS est une formule d'entretien exclusive comportant un entretien et un calibrage périodiques de vos instruments de mesure. La prise en charge de multiples aspects vise à vous libérer de tout souci lors de l'utilisation de vos instruments de mesure. Les coûts sont modiques et prévisibles.

## Accès numérique à vos certificats de calibrage avec Mon MQS .....

Mon MQS est un portail Web qui vous donne accès partout et à tout moment à vos certificats de calibrage et aux documents apparentés.

## Location d'instruments de mesure .....

- Vaste assortiment
- Conseils avisés
- Les instruments sont livrés avec leurs accessoires et leurs certificats de calibrage traçables

## EURO-INDEX Academy .....

- Formations sur les produits (individuelles et collectives)
- Séminaires
- Vidéos de démonstration et d'instruction

**Visionnez la vidéo sur notre chaîne YouTube et découvrez tout ce qu'il vous faut savoir sur MQS**



Guichet des services



Calibrage de l'analyse de gaz de combustion



Séminaires et ateliers



Calibrage de la thermographie

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