



TIGER SELECT

HANDHELD BENZENE DETECTOR

RAPIDLY DETECTS BENZENE &
TOTAL AROMATIC COMPOUNDS (TACS).

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/m³*
- Tube mode 200 ppm or 639 mg/m³ 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:

ION Science Ltd
The Hive, Butts Lane,
Fowlmere,
Cambridgeshire,
SG8 7SL, UK

T +44 (0)1763 208503
E info@ionscience.com

"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

Service van EURO-INDEX

EURO-INDEX verleent service op alle meetinstrumenten uit haar leveringspakket en biedt de faciliteiten, kennis en hoog gekwalificeerd personeel voor (preventief) onderhoud, reparatie en kalibratie van uw meetinstrumenten.

Geautoriseerd Service Centrum

EURO-INDEX is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum.

Dit betekent dat uw instrumenten worden behandeld door goed opgeleid en kundig personeel, dat beschikt over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen gebruikt en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

Service- en kalibratielaboratorium

EURO-INDEX beschikt over een bijzonder modern service- en kalibratielaboratorium met RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor verschillende grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105.



KWS®

KWS is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie. Veel zaken worden voor u geregeld, zodat u zonder zorgen gebruik kunt maken van uw meetinstrumenten. De kosten zijn laag en voorspelbaar.

Digitale toegang tot uw kalibratiecertificaten met Mijn KWS

Via het Mijn KWS webportal heeft u altijd en overal toegang tot uw kalibratiecertificaten en gerelateerde documenten.

Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Deskundig advies
- Instrumenten worden geleverd met accessoirepakket en herleidbaar kalibratiecertificaat

EURO-INDEX Academy

- Producttrainingen (individueel en klassikaal)
- Seminars
- Demonstratie- en instructievideo's

Bekijk de video op ons YouTube kanaal en ontdek alles over KWS



Servicebalie



Kalibratie rookgasanalyse



Seminars en workshops



Kalibratie thermografie

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BELGIË
Leuvensesteenweg 607
1930 Zaventem
T: 02 - 757 92 44
F: 02 - 757 92 64
info@euro-index.be
www.euro-index.be

NEDERLAND
Rivium 2e straat 12
2909 LG Capelle a/d IJssel
T: +31 - (0)10 - 2 888 000
F: +31 - (0)10 - 2 888 010
verkoop@euro-index.nl
www.euro-index.nl

