

TIGER SELECT

HANDHELD BENZENE DETECTOR



Best available photoionization (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

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

Minimize 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

Safety

- Accurate results in all environmental conditions
- Intrinsically safe; meets ATEX, IECEx, North American and Canadian standards

Low Cost Operation

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



Unrivalled Gas Detection



**RAPIDLY DETECTS BENZENE AND
TOTAL AROMATIC COMPOUNDS (TACS)
PROVIDING THE MOST ACCURATE,
RELIABLE DATA AVAILABLE.**

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.

Utilizing 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 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 Cub TAC personal PID monitor to provide the ultimate solution for benzene detection. Visit www.ionscience/cub for more details.

Applications Include

- Confined space entry pre-screening during refinery and plant maintenance 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



TIGER SELECT

Technical Specifications and Part Numbers

MINIMUM RESOLUTION

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

MINIMUM RESOLUTION

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

MAXIMUM READING

- Standard mode 20,000 ppm or 20,000 mg/m3 (gas dependent)
- Tube mode 200 ppm or 639 mg/m3 benzene

RESPONSE TIME

- 120 seconds. 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

- 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)
- 1180
- 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)

Included in Tiger Select Kit

- Tiger Select Instrument with rubber boot
- Rechargeable Battery (Li-ion)
- Battery Charger
- Mains Adaptor
- Probe Tube (60mm)
- Benzene Pre-filter Tube Probe
- Ion Science Benzene Pre-filter Tubes x 10
- Draeger Benzene Pre-filter Tube Opener
- Rugged Case
- Carbon Zero Filter Assembly
- Calibration Adaptor
- PTFE Filter Discs
- Removal Tool MiniPID Stack
- PID Lamp Cleaning Kit
- Lanyard
- USB Cable



Tiger Select Instruments	Description
PTXSLBMP-0517	Tiger Select - PPM / H&S / Data Logging
PTXSLBMP-0519	Tiger Select - PPB / H&S / Data Logging

Tiger Select Tubes	Description
861614	Ion Science Benzene Pre-Filter Tube (pack of 10)
A-861626	Ion Science Benzene Pre-Filter Tube (10 packs of 10)
A-861627	Ion Science Benzene Pre-Filter Tube (50 packs of 10)

* Requires registration on line at www.ionscience.com/customer-support/instrument-registration



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Unrivaled Gas Detection

TIGER ACCESSORIES

Batteries, Chargers, Comms	Description	Tiger LT	Tiger	Tiger Select
1/JAWU-01	2.1mm DC Jack- Cigar Lighter Plug Tiger Car Charger Lead	✓	✓	✓
1/VS-22	Mains Adaptor with Multiple Plug Adaptors	✓	✓	✓
	NOTE. Connects to battery charger cradle A-861220			
A-861220	Tiger Battery Charger Cradle	✓	✓	✓
A-861240	Tiger Rechargeable Battery Assembly	✓	✓	✓
A-861241	AA Battery Pack Assembly	✓	✓	✓
A-861511	Tiger Docking Plate and Charger	✓	✓	✓
861230	USB Cable - Angled B Connector	✓	✓	✓
A-861546	Tiger USB - RS232 Converter	✓	✓	✓

Boxes and Cases	Description	Tiger LT	Tiger	Tiger Select
861629	Rugged Case	✓	✓	✓
A-31166	Standard Case- Tiger LT	✓		
861266	Leather Instrument Holster (Belt strap and holder allows hands free operation)	✓	✓	✓
861412	Leather Instrument Harness	✓	✓	✓
861235	Lanyard	✓	✓	✓
861245	Charger Support Strap	✓	✓	✓
861205	Protective, Removable Rubber Boot	✓	✓	✓

Filters and Probes	Description	Tiger LT	Tiger	Tiger Select
861579	Tiger Filter Clamp (2017 on)	✓	✓	✓
880202	Tiger Probe Seal (2016 on)	✓	✓	✓
880207	Tiger Inlet Nozzle	✓	✓	✓
A-880210	Tiger Probe Upgrade Kit, 2016 Design	✓	✓	✓
A-880214	Tiger Probe (pack of 5) 2016 Design	✓	✓	✓
A-880216	Tiger Probe Seals (pack of 10) 2016 Design	✓	✓	✓
861476	Calibration Adaptor	✓	✓	✓
A-31057	Carbon Filter Assembly	✓	✓	✓
A-861482	Exhaust Barb for Tiger	✓	✓	✓
A-861406	Flexible Probe	✓	✓	✓
A-861413	5m Extension Hose	✓	✓	✓
A-861414	10m Extension Hose	✓	✓	✓
A-861441	PTFE Filter Discs (pack of 100)	✓	✓	✓
A-861472	PTFE Filter Discs (pack of 10)	✓	✓	✓
861218	Filter Housing Cap	✓	✓	✓
5/OV-02	O-Ring Viton 25ID x 2 Sect	✓	✓	✓



TIGER ACCESSORIES CONT.

Sensors and Access.	Description	Tiger LT	Tiger	Tiger Select
A-846417	Electrode Stack 10.0eV (white with gold dot)		✓	✓
A-846267	Electrode Stack PPB & 11.7eV (White)		✓	
A-846496	Electrode Stack (Orange)	✓		
LA4TM600	10.6 eV Lamp	✓	✓	✓
LA4SM700	MiniPID Lamp 11.7 eV		✓	
MP6SX6BXU2	MiniPID2 6-Pin 10.6eV		✓	
MP6SX66XU2	MiniPID2 H-PPM 6-Pin 10.6eV	✓		
MP6SX7BXU2	MiniPID2 6-Pin 11.7eV		✓	
846600	MiniPID Lamp Spring	✓	✓	✓
846216	MiniPID Electrode Stack Removal Tool	✓	✓	✓
A-861259	Sensor Cover Assembly	✓	✓	✓
861234	Sensor Cover Screw	✓	✓	✓
A-861214	Sensor Seal Coated	✓	✓	✓

Miscellaneous Access.	Description	Tiger LT	Tiger	Tiger Select
A-861268	Software USB Stick - Tiger Range		✓	✓
4/GB-01	Gas Bubbler with Safety Barb	✓	✓	✓
A-861267	Tiger Accessory Box	✓	✓	✓
A-31063	PID Lamp Cleaning Kit	✓	✓	✓

Tiger Select Access.	Description	Tiger LT	Tiger	Tiger Select
861614	Ion Science Benzene Pre-Filter Tube (pack of 10)			✓
A-861626	Ion Science Benzene Pre-Filter Tube (10 packs of 10)			✓
A-861627	Ion Science Benzene Pre-Filter Tube (50 packs of 10)			✓
5/FD-02	Tube Opener NO DISCOUNT			✓
A-880209	Tube Holder Assembly			✓
A-861498	Tiger Select Accessory Box			✓
861523	Tiger Select Inlet Nozzle			✓

Firmware Upgrades	Description	Tiger LT	Tiger	Tiger Select
861301	Tiger Firmware Upgrade - PPB Sensitivity		✓	✓

Calibration*	Description	Tiger LT	Tiger	Tiger Select
44ES-248-100	100 ppm Isobutylene Cal Gas in 44L Ecosmart Cylinder (C10)	✓	✓	✓
70-0.5	0.5 LPM Fixed Flow Regulator with C-10 Fitting	✓	✓	✓
75-DFR	Demand Flow Regulator with C-10 Fitting	✓	✓	✓
73-PBR	Push Button Regulator	✓	✓	✓
EB-248-100	Ecobump 100ppm Isobutylene, Balance Air	✓	✓	✓

* See calibration page for more options (page 24)

TIGER MULTI ADAPTERS

Probe Access.	Description
TIG-0002	MultiAdapter with Flexible Probe Extension 300 mm
TIG-0003	MultiAdapter with Flexible Probe Extension Custom (100-1000 mm)
TIG-0004	MultiAdapter with Pipe Connector for Pipe 4/6 mm (ID/OD)
TIG-0005	MultiAdapter with Pipe Connector for Pipe 1.5/3 mm (ID/OD)
TIG-0006	MultiAdapter with Stäubli Quick Connector Kit
	NOTE. Included Coupler for Pipe 4/6 mm (ID/OD)
TIG-0008	Tiger Select Pipe Connection Kit
	NOTE. MultiAdapter with Stäubli Quick Connector Kit and Special Design Tube Holder with Stäubli Connector
TIG-0009	Quickcoupler for Tiger Exhaust Pipe Connector for 4/6 mm (ID/OD)
TIG-0013	Float Probe
TIG-0012	Borehole Probe (500-1500 mm)
TIG-012.5	Borehole Probe (1501-2500 mm)



TIG-0002



TIG-0004



TIG-0005



TIG-0006



TIG-0008



TIG-0009



TIG-0013



TIG-0012

