

# CUB

PERSONAL VOC DETECTOR



PERSONAL VOC DETECTOR FOR  
HAZARDOUS & TOXIC GASES.

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

Pioneering Gas Sensing Technology.





THE WORLD'S SMALLEST, LIGHTEST,  
MOST SENSITIVE PERSONAL PID  
MONITOR FOR HAZARDOUS AND  
TOXIC COMPOUNDS.

FOR PLANT & WORKFORCE.

## Best available photoionisation (PID) detection

- PID independently verified as best performing on the market.
- Unrivalled sensitivity detects down to ppb levels.
- Widest range detects gases ppb – 5,000 ppm.
- In-built humidity resistance with no need to compensate.
- Anti-contamination design for extended field operation.
- Measures over 480 selectable compounds. (10.6 eV lamp)

## Ease of use

- Smallest, lightest personal PID monitor available.
- Simple one button operation
- Intuitive software and simple calibration routine.
- Easy to service.
- Easily upgrade your instrument.

## Safety

- Fast (<13 seconds) response to hazardous gases & vapours.
- Clear audio, visual and vibrating alarms.
- Large LCD display for clear readings.
- Battery life up to 12 hours
- Meets ATEX, IECEx approval standards.

## Low cost operation

- Inexpensive consumables and parts.
- 2 year warranty when instrument registered online\*

\* Terms and conditions apply.





Cub is the world's smallest, lightest personal PID monitor for the accurate detection of volatile organic and total aromatic compounds. With market leading parts-per-billion (ppb) sensitivity, Cub gives an early warning of hazardous gases, including benzene, before they reach levels which are harmful.

Cub is available in three distinct variants; ppm, ppb and TAC. Choose a ppb or ppm instrument with 10.6 eV lamp for accurately detecting a wide range of VOCs dependent on your sensitivity requirements. CubTAC with 10.0 eV lamp gives accurate detection of total aromatic compounds (TACs) down to ppb levels.

Small, compact and lightweight Cub is robust yet comfortable and unobtrusive to wear. Cub has a dynamic range of 1 ppb to 5000 ppm, the widest on the market measuring over 480 selectable compounds.

When worker exposure exceeds pre-set limits the instrument's audible, vibrating and flashing LED alarms alert you to the gases present. Readings are displayed in ppb and ppm on its bright, back-lit LCD display with selectable data logging time.

Upgradeable ppb sensitivity can be purchased quickly and easily. CubDoc docking stations are available for USB communication, charging and calibrating your instrument, dependent on your requirements.

The instrument's PID sensor technology has been independently verified as best performing for speed, accuracy and humidity resistant operation. Its unique anti-contamination and patented Fence Electrode Technology provide extended run time in the most challenging environments, giving you accurate results you can truly rely on.



## Applications include

- Industrial hygiene
- Chemical and petrochemical plants
- Oil & gas
- Pharmaceuticals
- Health & safety
- Hazardous materials
- First response
- Environmental

## Accessories

Cub is supplied with an exclusive range of accessories and replacement parts. Visit the ION Science website for more details.



## Technical specifications

### Sensitivity

- 0.001 ppm (isobutylene equivalent) \*
- 0.002 mg/m<sup>3</sup> (isobutylene equivalent) \*


### Accuracy

- ± 5% display reading ± one digit

### Response

- <13 seconds (T90)

### Approvals

-  II 1 G Ex ia IIC T4 Ga (-20 °C ≤ Ta ≤ 55 °C)
- Baseefa11ATEX0027 IECEx BAS 11.0014
- US and Canadian approvals: Class I, II and III, Division I, Hazardous (Classified) Locations

### Battery

- Battery life up to 12 hours
- Battery charge time 4 hours

### PID lamp options

- 10.6 eV, 10.0 eV

### Data logging

- 30,000 readings

### Communication

- USB 2.0

### Alarm

- LEDs, audio and vibrate
- Sounder 95 dB @ 300mm
- Pre-programmed TWA & STEL
- Work exposure alarm levels on all models.

### Temperature

- Operating: -20 °C to 60 °C (-4 °C to 140 °F)
- Certified: -20 °C to 55 °C (-4 °C to 131 °F)

### Weight and dimensions

- 111g (2.91 oz)
- 61 x 66 x 59 mm (2.4 x 2.6 x 2.3")

### Resolution

- ppm 0.1 ppm
- ppb 0.001 ppm
- TAC 0.01 ppm

### Range

- 0-5000 ppm

### Calibration

- 2 point calibration via docking station

### Upgradeable

- Upgrade ppm to ppb

### IP rating

- IP65\*\* (heavy rain)

### LCD display

- Backlit multi colour

### Flow rate

- N/A (no pump)

Cub V1.11 This publication is not intended to form the basis of a contract and specifications can change without notice.

\* Model dependant.

\*\* IP65 with PTFE filter fitted, IP64 without PTFE filter fitted.

All specifications quoted are at calibration point and under the same ambient conditions. Specifications are based on isobutylene calibration at 20 °C and 1000 mBar.

## Manufactured by:

### ION Science Ltd

The Hive, Butts Lane,  
Fowlmere,  
Cambridgeshire,  
SG8 7SL, UK

T +44 (0)1763 208503

E [info@ionscience.com](mailto:info@ionscience.com)

# Diensten van EURO-INDEX

EURO-INDEX is fabrikant, importeur en distributeur van diverse A-merken op het gebied van test- en meetinstrumenten. Daarnaast leveren wij een groot aantal diensten om het gebruik van deze instrumenten in uw bedrijfsvoering te optimaliseren. Dit omvat uiteraard onderhoud, reparatie en kalibratie van de instrumenten, maar ook kennisdeling via EURO-INDEX Academy en verhuur van instrumenten.

## Geautoriseerd Service Centrum

EURO-INDEX b.v. is van alle vertegenwoordigde merken een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument, evenals de certificering (ATEX, EN50379, etc.) blijven intact.

## Kalibratielaboratorium

Het laboratorium in Nederland beschikt over een RvA accreditatie naar EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij accreditatienummer K105. RvA kalibratiecertificaten zijn internationaal geaccepteerd en is gelijkwaardig aan BELAC.



## Mobiele Service

Naast de vaste kalibratielaboratoria in Zaventem en Capelle aan den IJssel beschikken wij ook over een laboratorium op wielen met de naam "Mobiele Service". Dit biedt vertrouwde service en kwaliteit, bij u voor de deur!

## KWS®

KWS® is een uniek servicesysteem voor uw meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten. Via een gratis webportal ([mijnkws.be](http://mijnkws.be)) heeft u altijd en overal beschikking over uw kalibratiecertificaten.

## Verhuur van meetinstrumenten

- Uitgebreid assortiment
- Nauwkeurigheid aantoonbaar door actueel kalibratiecertificaat
- Deskundig advies
- Complete levering inclusief accessoires

## EURO-INDEX Academy

- Trainingen, seminars en workshops
- Demonstratie- en instructievideo's
- Application notes



Servicebalie



Onderhoud, reparatie en kalibratie



Trainingen en seminars



Mobiele Service

Wijzigingen voorbehouden EURO-INDEX® VL 23001



**BELGIË**  
Leuvensesteenweg 607  
1930 Zaventem  
T: 02 - 757 92 44  
F: 02 - 757 92 64  
[sales@euro-index.be](mailto:sales@euro-index.be)  
[www.euro-index.be](http://www.euro-index.be)

**NERLAND**  
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](mailto:verkoop@euro-index.nl)  
[www.euro-index.nl](http://www.euro-index.nl)

