

# 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, backlit 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 55 °C (-4 °C to 131 °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 V1.12 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:

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