# CUB

PERSONAL VOC DETECTOR

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PERSONAL VOC DETECTOR FOR HAZARDOUS & TOXIC GASES.

ionscience.com Unrivalled Gas Detection.



ION

**CUB** 

TLV PEL VOC

ppm

# 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)

## Easy 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
- Longest battery life (16 hours)
- Meets ATEX, IECEx, North American and Canadian standards

# Low cost operation

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





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 mode. 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 anticontamination 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. Visit www. ionscience.com/cub for more info.



# Technical specifications

#### Sensitivity

• 0.001 ppm (isobutylene equivalent) \*

0.002 mg/m³ (isobutylene equivalent) \*

#### Accuracy

+/- 5% display reading +/- one digit

#### Response

• <13 seconds (T90)

#### Approvals

• Europe: ATEX: CE, Ex II 1G

• Ex ia IIC T4; -20 °C ≤ Ta ≤ 55 °C IECEx: Ex ia IIC T4 -20 °C ≤ Ta ≤ 55 °C

China: Ex ia IIC T4 -20 °C  $\leq$  Ta  $\leq$  55 °C

US and Canadian approvals: Class I, II and III, Division I, Hazardous (Classified) Locations

#### Battery

• Battery life up to 16 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 86 dB @ 300mm

Pre-programmed TWA & STEL. Work exposure alarm levels on all models.

#### Temperature

• ATEX/IECEx: II 2G Ex d II B+H2 T4 Gb (-20 °C to +55 °C)

#### 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

Cub V1.8. This publication is not intended to form the basis of a contract and specifications can change without notice.

\* Model dependant

#### Manufactured by:

#### ION Science Ltd

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#### Upgradeable

Upgrade ppm to ppb

#### IP rating

• Designed to IP65 (heavy rain)

#### LCD display

Backlit multi colour

#### Flow rate

• N/A (no pump)