CUB 11.7 eV

PERSONAL VOC DETECTOR

CAPABLE OF DETECTING ACETYLENE, METHANOL, FORMALDEHYDE AND MANY MORE GASES.

ionscience.com/usa

Pioneering Gas Sensing Technology.

ION

THE WORLD'S SMALLEST, LIGHTEST, SENSITIVE PERSONAL PID MONITOR WITH A HIGH ENERGY OUTPUT TO DETECT EVEN MORE GASES

Cub 11.7 eV is the world's smallest, lightest personal PID monitor for the accurate detection of volatile organic compounds and other gases that require a higher energy output such as **acetylene**, **methanol** and **formaldehyde**. With market leading sub-ppm sensitivity, Cub 11.7 eV gives an early warning of hazardous gases, including benzene, before they reach levels which are harmful.

Small, compact and lightweight Cub 11.7 eV is robust yet comfortable and unobtrusive to wear. Cub 11.7 eV has a dynamic range of 0.5 ppm to 5,000 ppm.

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 ppm on its bright, back-lit LCD display with selectable data logging time.

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.

Industries

- Oil & Gas (Petrochemical processing)
- Manufacturing
- Pharmaceutical & Laboratory
- Government & Defence
- Consultancy

Applications

- Personnel Safety (Including Confined Space Entry)
- Industrial Hygiene
- Emergency Response
- Plant Shut Down & Turnaround

Unrivalled photoionisation (PID) detection

- PID independently verified as best performing on the market
- Unrivalled sensitivity detects down to sub-ppm levels
- Widest range detects gases: 0.5 – 5,000 ppm
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation

Ultimate Safety

- Fast (<13 seconds) response to hazardous gases
- Clear audio, visual and vibrating alarms
- Large LCD display for clear readings
- Meets ATEX, IECEx and North American approval standards

Minimal Downtime

- Fast start up with no complicated set up
- Simple icon driven menu requires minimal user training
- Direct USB connectivity for fast data download
- Battery life up to 12 hours

Extend Your Warranty

Cub 11.7 eV warranty can be extended to up to 2 years if the instrument is registered online within one month of purchase. Visit the ION Science website to register your instrument.*

*Please refer to the warranty statement on the ION Science website.

Technical specifications

Approvals
- Ⓔx 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

Communication
- USB 2.0

Data Logging
- 30,000 readings

Alarm
- LEDs, audio and vibrate

  Sounder 95 dB @ 300mm

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

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

Calibration
- 2 point calibration via docking station

IP rating
- IP65 [1] (heavy rain)

LCD display
- Backlit multi colour

Flow rate
- N/A (no pump)

PERFORMANCE	
	11.7 eV
Minimum Sensitivity	0.5 ppm (500 ppb) [2 4]
Maximum Reading (Range)	5,000 ppm [2 4 5]
Accuracy	± 12% of display reading [2 4]
Response Time T90 (s)	< 13 seconds [2]
Lamp Lifetime	≥500 hours [3]
Temperature Range	0°C to 55°C

[1] IP65 with PTFE filter fitted, IP64 without PTFE filter fitted.
[2] Specifications are based on isobutylene calibrations at 20 °C and 1000mBar. All specifications quoted are at calibration point and under the same ambient conditions.
[3] Based on continuous running.
[4] For indicative measurement only. Quoted accuracy achievable up to 2,000 ppm. For more accurate detection, calibration around concentration of interest is recommended.
[5] Maximum reading is achieved with certain analytes

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