NEW Cub

Personal safety monitor for hazardous & toxic gases.

The world's smallest, lightest, most sensitive personal PID monitor for hazardous and toxic compounds.

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 1 ppb - 5,000 ppm
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation
- Measures 480 selectable compounds (10.6 eV lamp)

Safety

- Fastest (<5 second) 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 (US & Canadian certification pending)

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

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. Cub^{TAC} 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 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.

Cub's linked together within their docking stations.

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

CUB TECHNICAL SPECIFICATION

SENSITIVITY
0.001 ppm (isobutylene equivalent) *Model dependent
0.002 mg/m^3 (isobutylene equivalent) *Model dependent

ACCURACY
±5% display reading + one digit

RESPONSE TIME
<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 ≤ Ta ≤ 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
Operating: -20 to 55 °C, -4 to 131 °F
Humidity handling: Fence Electrode Technology

WEIGHT & DIMENSIONS
111g (3.91 oz)
61 x 66 x 59 mm (2.4 x 2.6 x 2.3")

RESOLUTION
0.001 ppm

RANGE
ppm 0.1 - 5,000 ppm
ppb 0.001 - 5,000 ppm
TAC 0.01 - 5,000 ppm

CALIBRATION
2 point calibration via docking station

UPGRADEABLE
Upgrade ppm to ppb

IP RATING
Designed to IP65 (heavy rain)

LCD DISPLAY
Back lit multi colour

FLOW RATE
N/A (no pump)

DOCKING STATION OPTIONS
Charge only
Charge and USB communication
Charge, USB communication and calibration

*Model dependant

Cub V1.6. This publication is not intended to form the basis of a contract and specifications can change without notice.

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