



# Corvus

## Wireless VOC Monitor for Indoor Air Quality.



**Continuous monitoring and data logging of low level VOCs, temperature, humidity and atmospheric pressure found in public buildings.**

### **Best available photoionisation (PID) detection**

- Detects a wide variety of Volatile Organic Compounds (VOCs) including Benzene, Tetrachloroethylene & Styrene
- Includes temperature, barometric pressure & humidity sensors
- Low level parts-per-billion (ppb) sensitivity
- Gathers continuous high quality data for detailed analysis
- Humidity resistant PID technology
- PID independently verified as best performing on the market

### **Wireless communication and interactive software**

- Wireless network connectivity for multiple point monitoring
- Interactive software for enhanced data handling
- Multiple data collection via a single monitor
- Intelligent mapping software shows movement of gases

### **Convenience**

- Time saving; eliminates multiple site visits and spot checks
- Compact size; multiple deployment using minimal space
- Sleek design blends well into workspace environment
- Simple multicoloured LED displaying wireless status, sampling status and connection to system

### **Safety**

- Ensures a safe indoor working environment for personnel



The Ion Science Corvus is a continuous, wireless VOC monitor specifically designed for Indoor Air Quality monitoring ensuring safe working environments from hazardous VOC gases.

The Corvus IAQ monitor utilises unrivalled, high sense technology detecting VOCs down to low part-per-billion (ppb) levels measuring compounds with its 10.6 eV lamp. Corvus includes sensors for temperature, barometric pressure and humidity helping to identify the actual source of VOCs present.

Corvus continuously monitors and datalogs high quality data for detailed analysis. The collection of long-term information eliminates the need for frequent site visits and spot checks, saving both time and money.

The Corvus IAQ monitor utilises intelligent interactive mapping software showing real trend data captured from each room, giving a true picture of what is really happening within the environment. Data can be downloaded from a group of up to twenty Corvus monitors, but managed via just one instrument.

Small, sleek and compact in design, Corvus allows deployment of multiple monitors around the building via wireless connectivity, whilst blending well into the environment and using minimal space.

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 and reliable results.

#### Typical gases detected include

Benzene, Ethyl benzene, Styrene, Tetrachloroethylene, Trimethylbenzene, Toluene and Xylene.

#### Applications include

- Indoor Air Quality (Sick Building Syndrome)
- Process Evaluation
- Emission level monitoring from buildings

#### Accessories

Corvus is supplied with an exclusive range of accessories. Visit [www.ionscience.com/corvus](http://www.ionscience.com/corvus) for more info.

#### Distributed by:

### CORVUS TECHNICAL SPECIFICATION

#### SENSITIVITY

PID : 5 ppb  
Temperature: 0.1 °C (0.18 °F)  
Relative humidity: 0.04%  
Barometric pressure: 0.72 mbar (72 Pa), (0.2% full scale)

#### DETECTION RANGE

PID: 0-50 ppm (isobutylene equivalent)  
Temperature: -40 °C to +125 °C (40 °F to 257 °F)  
Relative humidity: 0-99% (non condensing)  
Barometric pressure: 700 mbar to 1060 mbar (70 KPa to 106 KPa)

#### ACCURACY

PID: +/- 5 ppb displayed reading + 1 digit  
Temperature: +/- 1 °C of reading + 1 digit  
Relative humidity: +/-4% of reading + 1 digit @ 25 °C between 10 and 90% RH  
Barometric pressure: +/- 1.5% displayed reading + 1 digit (FSD)

#### WIRELESS NETWORK

Type: mesh  
Corvus to Corvus range (open field): up to 12 metres (39.3ft)  
Maximum number of Corvus in group: 20 max  
Wireless frequency: 2.4 GHz. IEEE802.15.4 compliant transceiver.

#### DATA LOGGING

Data logging: 18,755 points (individual Corvus)  
Data logging: 8900 points (Network of 20 Corvus)  
Data log options: 1 min, 10 min, 1 hr

#### POWER

Mains power supply: 100-240 Vac (15 Watts)  
Cover power input: 12 Vdc

#### COMMUNICATION

Corvus to PC: USB  
Corvus to Corvus: wireless via a network

#### WEIGHT & DIMENSIONS

Height: 68 mm, 2.7"  
Width: 176 mm, 6.9"  
Depth: 123 mm, 4.8"  
Weight (unpacked): 400 gr, 14.1 oz

Corvus V1.2 This publication is not intended to form the basis of a contract and specifications can change without notice.

#### Manufactured by:

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