

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 photoionization (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 utilizes unrivaled, 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 data logs 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 utilizes 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 provides 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.ereinc.com for more info.

TECHNICAL SPECIFICATION

AIR MONITORING

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 (FSO)

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 adaptor input 100-240 Vac 5W (power adaptor supplied)
Corvus can also be powered directly (5Vdc 200mA)

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