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Airpointer

Airpointer is a new concept in air quality monitoring technology. Designed for 'hot spot' monitoring or locations where space or planning consent prevents the use of large conventional monitoring stations, the Airpointer offers similar performance in a small enclosure. Although the system is compact it does not compromise on accuracy as it utilises reference method optical monitoring techniques. The system is controlled by an advanced PC module which carefully manages the air conditioned environment inside the enclosure and up to four gas monitors. Communication cell phone or broadband and data collection and remote control are accomplished using a web browser.



Ideal for urban sites where space is at a premium or on industrial "fence line" applications the Airpointer is robust and able to operate in harsh weather conditions. The system requires little attention and is easily calibrated and maintained. The ingenious design provides monitoring of NO_x, SO₂, CO, O₃, atmospheric pressure & temperature and optionally, wind speed & direction and a range of other sensors to suit your particular application requirements. The Airpointer is very quiet in operation making it possible to locate in residential areas or even indoors. Airpointer requires only 350W of power at 230V and can be run from a standard street light supply or from a vehicle power supply using an inverter, so mobile operation with GPS location is also possible. The system is fully upgradeable using a plug & play concept for future expansion.

Specification

Chemiluminescence NO/NO₂/NO_x Sensor

Ranges: dynamic ranges for NO, NO₂, NO_x up to 10 ppm

Units: ppb, ppm, µg/m³, mg/m³

Lower Detectable Limit (LDL): < 2 ppb

Zero Drift: < 1 ppb/24 hours

< 2 ppb/7 days

Span Drift: < 1 % of reading/24 hours

< 2 % of reading/7 days

UV Fluorescence SO₂ Sensor

Ranges: dynamic range up to 20 ppm

Units: ppb, ppm, mg/m³, µg/m³

Lower Detectable Limit (LDL): < 1,0 ppb

Zero Drift: < 1,0 ppb/24 hours, 2,0 ppb/7 days

Span Drift: < 1,0 % of reading/24 hours

< 2,0 % of reading/7 days

Infra Red (GFC) CO Sensor

Ranges: dynamic range up to 1000 ppm

Units: ppm, ppb, µg/m³, mg/m³

Lower Detectable Limit (LDL): < 0,08 ppm (RMS)

Zero Drift: < 0,2 ppm/24 hours

< 0,4 ppm/7 days

Span Drift: < 2 % of reading/7 days

UV Photometric O₃ Sensor

Ranges: dynamic range up to 10 ppm

Units: ppb, ppm, µg/m³, mg/m³

Lower Detectable Limit (LDL): < 1,0 ppb (RMS)

Zero Drift: < 1,0 ppb/24 hours

< 1,0 ppb/7 days

Span Drift: < 1,0 % of reading/7 days

Airpointer platform

Sample Flow Rate: less than 3000 cc/min

Operating Temperature Range: -20 to +40° C (sensor specs valid within that range)

Dimensions (HxWxD): approx. 80 cm x 60 cm x 50 cm

Weight: approx. 35 to 70 kg (depending on configuration)

Power: 230VAC, typically 350W, 10A fuse

Configuration: any combination of up to 4 pollution sensors (above) & meteorological sensors system is upgradeable for future additional sensors

Basic System includes :

IP 56 Enclosure, air conditioning system, sample inlet, zero air system, calibration port, sample particulate filter, sample pump, power management, PC management, data logging, communications management, web based browser, data management with diagnostics, remote control & user configurable tabular and graphical interface, electronic station log.

Options :

Modem (Tel, GSM, GPRS, G3, Broadband)

Wind Speed & Direction, Rainfall, Solar Radiation, etc.

Noise Monitor

Particulate Monitor* (TEOM, FDMS, Partisol etc.) *Larger enclosure required.

BT Callbox package (fits in roofspace of BT standard callbox)

Post mounting bracket

Wall mounting bracket