

AQ112 is an advanced air quality transmitter that can be used alongside the existing family of GenII transmitters. It enables detailed monitoring of a site such as a school, hospital, office, gallery, or work area - anywhere that air pollution can affect the health of the occupants or the objects and processes within.

## System Operation

A single box solution with the following built in gas and air particulate sensors:

### CO<sub>2</sub>

Range: 0-5000ppm  
Accuracy at +25 °C:  $< \pm (50\text{ppm} + 3\% \text{ of measured value})$  at 1013mBar

Temperature dependence: Typically 2ppm CO<sub>2</sub> / °C over the range 0 to +50°C  
Pressure dependence: 0.14% of measured value / mBar deviation

### Relative Humidity

Range: 0-100% non condensing  
Accuracy:  $\pm 2\%$  (10 to 90% RH)  
 $\pm 4\%$  (0 to 100% RH)  
Resolution: 0.1%

### Temperature

Range: -20°C to 70°C  
Accuracy:  $\pm 0.4^\circ\text{C}$  (-5°C to 40°C)  
 $\pm 1.0^\circ\text{C}$  (-20°C to 65°C)  
 $\pm 0.5^\circ\text{C}$  (5°C to 45°C)  
Resolution: 0.1°C

### CO

Range: -5.00-500.00ppm

### NO<sub>2</sub>

Range: -0.1000-3.0000ppm

### O<sub>3</sub>

Range: Selectable from 0-250ppb to 0-20ppm

### VOC

Range: 0-50ppm

### Particulates (Air flow 0 to 5 L/minute)

3 channels: PM1 0-1  $\mu\text{m}$  sized particles ( $\mu\text{g}/\text{m}^3$ )  
PM2.5 0-2.5  $\mu\text{m}$  sized particles ( $\mu\text{g}/\text{m}^3$ )  
PM10 0-10  $\mu\text{m}$  sized particles ( $\mu\text{g}/\text{m}^3$ )

For workplace atmospheres (ref. BSEN481)

### Sound Pressure level

Socket for SPL and 9VDC power out.  
Input signal: 0 to 100mVDC equating to 30 to 130dB when used with EX407750 sound level meter.

In addition the following channels are available for user data processing  
internal temperature  
NO<sub>2</sub> working and auxiliary electrodes information for compensation applications if required.



## Specification

Dimensions:	120mm x 85mm x 200mm (275mm with aerial)
Weight:	2.2Kg
Case material:	Polycarbonate
Antenna socket:	SMA
Antenna type:	70mm compressed spring
Power supply:	Mains AC with battery backup
Power supply type:	MPI2U (12VDC/0.8A)
Power connector (12VDC):	2.1 mm barrel jack
Battery backup:	2 days
Battery chemistry:	Li-ion
Time to charge:	7.5 hours
Environmental rating:	IP40
Operating temperature:	-10 to +50°C
Operating Humidity:	0-90%RH non condensing
RF compliant to:	EN300-220-2
Frequency of operation:	434.225MHz (other frequencies are available)

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