



## Be air aware

Communities can monitor air quality in their local towns and cities and be more aware of the air they breathe. Particulate matter contains microscopic solids or liquid droplets that are so small that they can be inhaled and cause serious health problems. Some particles less than 10 micrometers in diameter can get deep into your lungs and some may even get into your bloodstream.

## An air quality monitoring system

The eco-post is designed to raise public awareness of air quality, and warns against any harmful contaminants. It measures then signals air quality results using a coloured LED lighting index system. The colours indicate the scale of particulate matter and contaminant concentrations ranging from low to very high.

## It's application

The eco post is suitable for use around busy city centres and towns with high traffic routes, parks, walking and cycling trails, playgrounds, sports fields, outdoor gyms, preschool and school gardens. Additionally, anywhere that air quality is of concern indoors, such as factories and offices.

## What does it measure?

Dependant on model:

Standard monitored particulates include PM2.5 , PM10 with temperature and humidity.

additional monitored options include sulphur dioxide (SO<sub>2</sub>), ozone (O<sub>3</sub>), PM1, formaldehyde, carbon dioxide (CO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), & atmospheric pressure.

## Air quality index & eco post led colour meaning.

Band	PM10	PM2.5	General Population health advice. 1
Low	0 - 50	0 - 35	Enjoy your usual outdoor activities. 2
Moderate	51 - 75	36 - 53	
High	76 - 100	54 - 70	Anyone experiencing discomfort such as sore eyes, cough or sore throat should consider reducing activity, particularly outdoors. 2
Very High	> 101	> 71	Reduce physical exertion, particularly outdoors, especially if you experience symptoms such as cough or sore throat. 2

1. Adults and children with heart or lung problems are at greater risk of symptoms. Follow your doctor's usual advice about exercising and managing your condition.  
2. Department for the Environment Food and Rural Affairs, recommended health advice messages for the general population.

## Connectivity

Wi-Fi / GSM: Connect to the AirSensor platform to access detailed data from installed eco poles. Analysis is presented on a map, in real time or historical data can be downloaded.

Bluetooth: The eco pole communicates with the AirSensor mobile app, giving you complete control to set parameters based on your local, regional or national air pollution index.

## Technical Data

Protection: IP 65.

Material: anodized aluminium alloy.

Shade: frosted (PMMA).

Predicted LED life: 25,000 h.

Number of LEDs: 256 RGB LEDs.

The device can operate in an LED lamp mode or in split mode (some LEDs are used as lighting and some as a pollution indicator).

## General data

Warranty: 2 years return to manufacturers warranty (extended warranty available).

Operating temperature range: -20°C to +45°C.

## Mobile App

Free, multiplatform App allows you to see the current data with option to make this data available to the public. Subscription required to view or download historic data held in the cloud.



Mobile App Data Sample:

PM 10.0	4.0 µg/m <sup>3</sup> ↑ 8%
PM 2.5	3.2 µg/m <sup>3</sup> ↑ 12%
PM 1.0	1.8 µg/m <sup>3</sup> ↑ 2%
Pressure	1015.6 hPa
Temperature	20.6 °C
Humidity	36%
HCHO	0.0 µg/m <sup>3</sup> ↑ 0%