

WellStat Air for Outdoors



Sensor Specifications

Temperature	-45 to 125°C ±0.2°C -49 to 257°F ±0.36°F
Humidity	(0 to 100%) ±2%

Particle Matter (PM1.0 | PM2.5 | PM4 | PM10)

Particle Detection Size Range*	Mass concentration: PM1.0, PM2.5, PM4 & PM10 Number concentration: PM0.5, PM1.0, PM4 & PM10 0.3µm
Mass Concentration Accuracy**	±10 µg/m ³ @ 0 to 100 µg/m ³ ±10 µg/m ³ @ 100 to 1000 µg/m ³
Mass Concentration Range	1 to 1000 µg/m ³

Electrochemical Sensor Options

NO ₂	0 -5,000ppm
SO ₂	0-10,0-00ppb
CO	0-10,0-00ppb
O ₃	0-2,000ppb
CO ₂	0-5,000ppm

*PM_x defines particles with a size smaller than "x" micrometers (e.g., PM2.5 = particles smaller than 2.5µm).

**Specified for PM2.5 at 25°C / 77°F using potassium chloride salt particles and the TSI DustTrak™ DRX Aerosol Monitor 8533 as a reference.

Physical Specifications

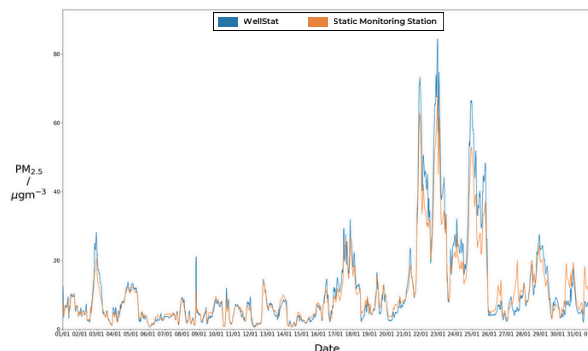
Environment Operating Range	-18 to 50 Centigrade
Power Draw	<350 mA
Dimensions	19.5cm x 16cm
Weight	0.75kg

Sensors are shipped fully calibrated and baselined using a local DEFRA monitoring station as a reference.

Electrochemical sensors have a life span of 24 months when they will need to be replaced.

Particulate Matter sensor has a life span of >5 years

WellStat Air for Outdoors at Static Monitoring Station PM_{2.5} / µg m⁻³



Data taken from WellStat Air for Outdoors unit co-located at the DEFRA Watford static monitoring station.