

enLink OAQ

LoRaWAN Outdoor Air Quality Monitor

Synetica's enLink OAQ outdoor air quality monitor measures key environmental parameters continuously and in real time with exacting accuracy. Using cutting-edge digital and gas sensing technology, the enLink OAQ ensures drift-free reading without further calibration and extended instrument longevity.

Designed and manufactured in the UK, the enLink OAQ records essential air quality data including temperature, relative humidity, particulate matter, CO₂, ozone, CH₂O, CO, NO₂, H₂S, SO₂, O₂, volatile organic compounds, barometric pressure and sound levels.

The outdoor air monitor can be battery, solar, or externally powered ensuring flexible installation options. Data is transmitted up to 16km using LoRaWAN long-range wireless seamlessly, linking data to the cloud, providing visual, easy to analyze data.



Sensed Parameters



Temperature



Relative Humidity



VOCs



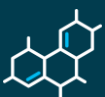
CO₂



Particles PM1, 2.5, 4, 10



Barometric Pressure



EPA*



Ozone*



Gas sensors**

Key Features



Detailed, accurate measurements



Key environmental parameters monitored



Tough, weatherproof design for extended instrument longevity



Easy system set up



LoRa™ wireless, up to 16km range



MCERTS certified particulate matter sensor



Subscription free, easy to analyse data

Established in 2008, the engineering team at Synetica have many years experience in monitoring and analysing critical environmental information for the facilities management, commercial and industrial sectors.

Many businesses are monitoring and regulating air quality in order that they comply with increasingly stringent government standards or to simply negate the effects of contaminated air on public and employee health. The enLink OAQ features a particulate matter sensor providing MCERTS certified data.

Synetica's outdoor air monitoring solutions are designed to provide accurate data over long distances and integrate easily with smart technology platforms helping businesses and public bodies monitor key environmental factors.

Combining our extensive manufacturing capabilities with our acquired knowledge, we work with a diverse range of customers from power generation plants and retail outlets, through to large scale public infrastructure projects and prestigious commercial property developments.

If you have a specific requirement for an air, environmental, energy or asset monitoring solution, contact us to learn more about how our precision monitoring technologies could help.

Specifications

Temperature	Accuracy: $\pm 0.3^{\circ}\text{C}$ (typical) Range: -40°C to $+80^{\circ}\text{C}$
Humidity	Accuracy: $\pm 2\% \text{RH}$ (typical) Range: 0 – 100% RH (non-condensing)
Pressure	Absolute accuracy (full range): $\pm 0.6 \text{hPa}$ Relative accuracy: (700-1100hPa) $\pm 0.12 \text{hPa}$ (equivalent to $\pm 1 \text{m}$ in altitude) Range: 300-1100hPa
Particulate matter	MCERTS Certified, EN 15267 compliant. Particles measured: PM0.5, PM1, PM2.5, PM4 & PM10
Ozone	Accuracy: $\pm 10\%$ (200ppb) Range: 0 ppb – 2ppm. Resolution 1 ppb
VOC's	VOC IAQ Index and ppm (bVOC) Range: 0 – 500 IAQ
CO₂	Accuracy: $\pm (30, +3\%) \text{ ppm}$ (typical) Range: 0 – 5,000 ppm
Gas sensor	Accuracy: $\pm 5\%$ F.S. ($\text{CH}_2\text{O} \pm 10\%$)
EPA AQI	EPA Air Quality Index based on O ₃ and NO ₂ concentration Accuracy: $\pm 15\%$ (typical)

*Refer to enLink OAQ Datasheet for additional gas modules and specifications

About us

Synetica was established in 2008 with the simple idea to revolutionise air quality monitoring, energy usage and remote asset monitoring. Our global customer base relies on our expertise to help them reduce emissions and clean up the air they breathe by allowing them to monitor their energy usage and key environmental parameters via the touch of a button.

www.synetica.net

T: +44 (0)1785 818919 **E: enlink@synetica.net**