

# enLink

## enLink OAQ

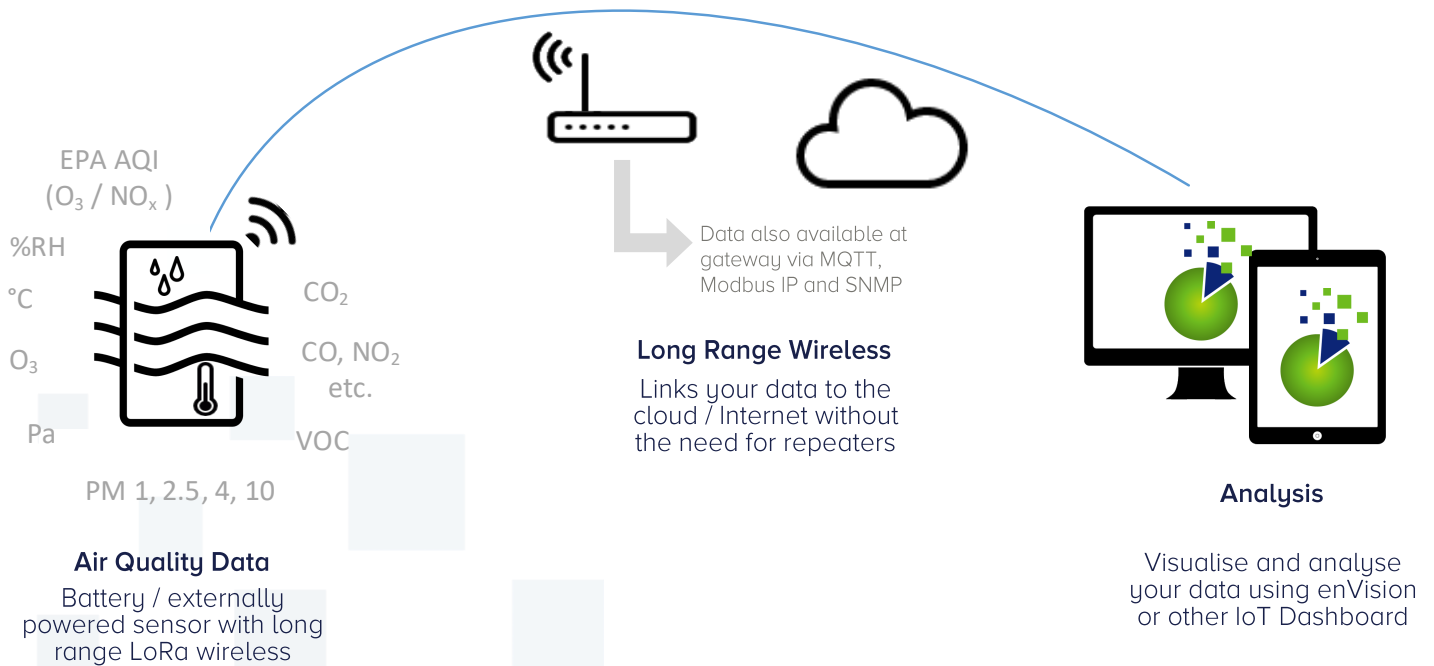
enLink OAQ accurately measures up to nine key outdoor air quality parameters with class leading accuracy. Available with temperature, relative humidity, particulate matter, CO<sub>2</sub>, O<sub>3</sub>, CH<sub>2</sub>O, CO, NO<sub>2</sub>, H<sub>2</sub>S, SO<sub>2</sub>, O<sub>2</sub>, VOC's, barometric pressure and with Internationally approved Air Quality Index — AQI (based on Ozone and Nitrogen Oxide concentrations).

Data is transmitted via long range LoRaWAN wireless for remote analysis.

Battery or externally powered to provide flexible installation options.



## end to end from measurement to analysis



Readings are transmitted using long range LoRaWAN wireless. Data can be transferred using MQTT, Modbus IP, SNMP or CSV file transfer, where it can be used by a cloud IoT platform, or on site BMS, DCIM or SCADA.

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Long range  
wireless  
air quality  
sensor



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Measures key outdoor air quality parameters with outstanding accuracy and resolution using fully calibrated sensors.

- MCERTS certified particulate matter sensor provides precise measurements of PM<sub>1</sub>, PM<sub>2.5</sub>, PM<sub>4</sub> and PM<sub>10</sub>.
- Ozone measurement down to single digit parts per billion (ppb) resolution using breakthrough self calibrating sensor arrays.
- Flexible gas sensor socket, select one from CH<sub>2</sub>O, CO, NO<sub>2</sub>, H<sub>2</sub>S, SO<sub>2</sub>, O<sub>2</sub>
- AQI sensor detects Ozone and Nitrogen Oxides as low as 20 parts per billion (ppb) to provide an Air Quality Index (AQI) based on international standards.

enLink OAQ reveals outdoor air quality using leading edge digital sensors to provide high accuracy, long life, drift free readings without further calibration.

## Air Quality Parameters

- Temperature (°C)
- Particulate Matter PM<sub>1</sub>, 2.5, 4, 10
- Barometric Pressure
- EPA<sup>+</sup> Air Quality Index (AQI) based on O<sub>3</sub> and NO<sub>x</sub> concentrations
- Ozone (O<sub>3</sub>)<sup>\*</sup>
- Flexible gas option, select one gas from CH<sub>2</sub>O, CO, NO<sub>2</sub>, H<sub>2</sub>S, SO<sub>2</sub>, O<sub>2</sub><sup>\*</sup>
- Relative Humidity (%RH)
- VOC's
- Carbon Dioxide (CO<sub>2</sub>)<sup>\*</sup>

<sup>\*</sup>optional Sensor. <sup>#</sup>depends on sampling / transmission interval. <sup>+</sup>EPA = US Environmental Protection Agency.

## Battery or externally powered

- Battery life 2+ years<sup>#</sup>
- User replaceable batteries (4 x Standard AA size, Lithium 3.6V)
- Can be powered from external power supply (12-24V DC)
- Compact IP rated enclosure 180mm x 120mm x 51mm

## Long range LoRaWAN wireless

- Up to 16 km wireless range
- Deep in-building penetration 1—2 km
- LoRaWAN compliant

## Specifications

Particles	Mass concentration size PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>4</sub> , PM <sub>10</sub> (µg) MCERTS-certified. EN 15267 compliant. Variability < 5 µg/m <sup>3</sup> Number concentration size PM <sub>0.5</sub> , PM <sub>1</sub> , PM <sub>2.5</sub> , PM <sub>4</sub> , PM <sub>10</sub>
Ozone	Detection range 0 ppb to 2 ppm. Resolution 1 ppb. Accuracy ±10% (200ppb). Response time < 10 Sec.
Gas Sensor	Accuracy ±5% F.S. (CH <sub>2</sub> O ±10%) See data sheet for details.
EPA AQI	EPA Air Quality Index based on O <sub>3</sub> and NO <sub>2</sub> concentrations (does not give individual concentration levels) Accuracy (typ.) ±(15%) Range 20 to 500 ppb Sensor Life Expectancy > 5 Years
Barometric Pressure	Absolute Accuracy (full range): ± 0.6 hPa Relative accuracy (700 – 1100hPa) ± 0.12 hPa (equivalent to ±1m in altitude) Range 300 to 1100 hPa
CO <sub>2</sub>	Accuracy (typ.) ±(30ppm +3% of reading) Range 0 to 5000 ppm
VOC's	IAQ Index 0 to 500. bVOC ppm
Temperature	Accuracy ±0.1°C (typ) Range -40°C to 80°C
Humidity	Accuracy ±1.5%RH (typ) Range 0 to 100% RH (non condensing)

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