ENVIRONMENTAL

enLink Zone Plus

LoRaWAN Environmental Sensor

Synetica's enLink Zone Plus Environmental Sensor provides real time, continuous measurements of key parameters for effective, efficient climate control in commercial office buildings, schools, hotels, hospitals and other managed facilities.

Designed and manufactured in the UK, the enLink Zone Plus accurately monitors temperature, relative humidity, carbon dioxide*, VOCs, barometric pressure, light levels, building occupancy* and sound*. The system is simple to install and can be powered from an external supply or via user replaceable batteries.

The intelligent system uses VOCs and CO2 levels for demand-controlled ventilation (DCV) providing a healthy and comfortable environment for building occupants and ensuring energy efficiency for property operators. By monitoring sound levels, the enLink Zone Plus can help to minimise unnecessary noise pollution and protect staff on-site.

** Model dependent*

Applications

- Commercial
- Healthcare
- Infrastructure
- Hospitality
- Retail
- Education

Key Features

- Detailed, accurate measurements
- Key environmental parameters monitored
- Stylish, discreet design
- Easy configuration via USB/downlink
- LoRa™ wireless, up to 16km range
- Real-time information
- 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.

Businesses monitor key environmental parameters to negate increasing energy costs or to ensure that they comply with increasingly stringent government standards on air quality and noise pollution.

Synetica's monitoring solutions integrate seamlessly with green building design and smart technology platforms via long range LoRa wireless, helping companies achieve WELL® compliance and supporting national air pollution control schemes.

Combining our extensive manufacturing capabilities with our acquired knowledge, we work with a diverse range of customers from the hospitality sector 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: ±0.2°C (typical) Repeatability: ±0.1°C Conversion time: 6.35ms
Humidity	Accuracy: ±2% (typical) Repeatability: ±0.1% Response time: 15s
Pressure	Accuracy: ±0.12hPa (equivalent to ±1m in altitude) Range (with full accuracy): 300 – 1100hPa Resolution: 0.18Pa
Light level	Less than 4% error Precision optical filtering to match human eye: Rejects > 99% of IR (typical). Range: 0.01 lux to 83,000 lux Light source variation (incandescent, halogen, fluorescent): 4%
Presence (PIR)*	Detection distance: 5m. Detection area: 82° horizontal, 94° vertical
VOCs	IAQ Index 0 to 500 TVOC level (ppm) Variability ±15% (typical) Response time: (tτ33-63%) 1 s
CO_2*	Sensing method: Non-dispersive infrared (NDIR) Accuracy: ±(30ppm, +3%) of reading Range: 0 – 5,000 ppm Extended range 0 – 10,000 ppm Response time: 3 minutes (t90) Sensor life expectancy: >15 years Maintenance Interval: No maintenance required
Sound*	Sensitivity: -26dB FS ±1dB SNR: 65dBA Dynamic Range: 91dBA Acoustic Overload Point: 120dB SPL THD: 0.2% (Typical) @ 105dB SPL
Dimensions	80 x 120 x 25mm

*Optional sensor

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.

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