

enLink IAQ-ISO

LoRaWAN ISO Cleanroom Air Quality Monitor

Synetica's enLink IAQ-ISO air quality monitor, individually calibrated to ISO 21501-4, ensures traceable, highly accurate particle count data for ISO Class 7-9 cleanrooms and ultra-low concentration environments. A calibration certificate accompanies every unit.

Designed and manufactured in the UK, the enLink IAQ-ISO allows for easy visualization and analysis of 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 enLink IAQ-ISO can be externally powered from 12-24V DC or via a PoE splitter ensuring flexible installation options. Data is transmitted up to 16km using LoRaWAN long-range wireless with building, interior penetration of 1-2km without repeaters.



ISO 21501-4
COMPLIANT

Sensed Parameters



Temperature



Relative Humidity



VOCs



CO₂



Particles to PM0.1



Barometric Pressure



Sound*



Ozone*



Gas sensors**

Key Features



Measures particulate matter to PM0.1



Key environmental parameters monitored



Stylish, discreet design



Individually calibrated to ISO 21501-4



Each unit supplied with a calibration report



LoRa™ wireless, up to 16km range



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.

Synetica's air monitoring solutions integrate seamlessly with green building design and smart technology platforms helping companies achieve WELL® and RESET® compliance and supporting national air pollution control schemes. In addition, the IAQ-ISO particle sensor is individually calibrated to meet the requirements for ISO 21501-4 cleanroom standard. A calibration report is provided for each unit.

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: $\pm 0.2^{\circ}\text{C}$ (typical) Range: -20°C to $+50^{\circ}\text{C}$
Humidity	Accuracy: $\pm 2\%$ RH (typical) Range: 0 – 100% RH (non-condensing)
Pressure	Accuracy: $\pm 0.12\text{hPa}$ (equivalent to $\pm 1\text{m}$ in altitude)
Ozone[#]	Range: 0ppb to 0.5ppm. Accuracy: $\pm 10\text{ppb}$ (typical @ 23°C and 30% RH) *
Particulate matter	Particles measured: PM 0.1, 0.3, 0.5, 1.0, 2.5, 5.0 & 10 Calibrated to ISO 21501-4
Sound[#]	Sensitivity: $-26\text{dB FS} \pm 1\text{dB}$ Dynamic range: 91dBA
Gas sensor[#]	Accuracy: $\pm 5\%$ F.S ($\text{CH}_2\text{O} \pm 10\%$)*
VOC's	VOC IAQ Index and ppm (bVOC) Range: 0 – 500 IAQ
CO₂	Accuracy: $\pm (30\text{ppm}, +3\%$ of reading) Range: 0 – 5,000 ppm

*Refer to enLink IAQ Datasheet for additional gas modules and specifications
[#]Optional sensors

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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