E360

sanalife

Indoor Air Quality Monitor

Intelligent indoor air quality sensors and monitoring software from E360

Learn more at sanalifewellness.com/e360

E360 Indoor Air Quality Monitor

IAQ Sensor

VOCs & NOx
Carbon Dioxide
Temperature
Relative Humidity
Formaldehyde
Oxygen

USB Interface

Particulate Matter Sensor

Power Button

Monitor Display

Wi-Fi Button

E360 Indoor Air Quality Monitor

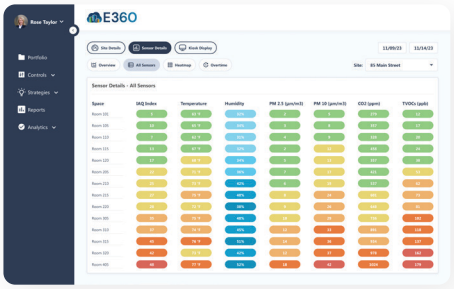
Connected Monitoring Solution For Real-Time Data

Easily connect E360's IAQ monitor to our cloud-based platform over Wi-Fi. E360's data visualization dashboards make it effortless to view your facility's indoor air quality data on both micro and macro levels.

Our IAQ monitor seamlessly integrates with E360's advanced strategies, building optimization, and automation capabilities, allowing you to make informed decisions based on accurate sensor data.

Monitor All Factors Impacting Your Indoor Air Quality

E360's advanced IAQ monitor was engineered to address commercial buildings and facilities' indoor air quality concerns. E360 IAQ sensors monitor all indoor air quality factors, such as PM 0.5 to PM 10 levels, Total Volatile Organic Compounds (TVOCs), Carbon Dioxide levels (CO2), Formaldehyde (HCHO), ambient temperature, and humidity levels.



See Air Quality Statistics In Every Space

Managing indoor air quality is now more convenient with E360. You can utilize the 360 views of your location or buildings to monitor the air quality in each space.

Access Historical Data, Insights, & Trends

Access historical data and trends to gain immediate insights into the factors affecting air quality. This will help you better understand what these factors mean and how to manage indoor air quality effectively.

Particulate Matter Sensor

Dimensions	41 x 41 x 12mm
Weight	26g
Measurement Method	Laser Scattering (660nm Wavelength)
Particle Sizes	PM0.5, PM1, PM2.5, PM4, PM10
Number Concentration	0-3000/cm3
Mass Concentration	0-1000microgram/m3

Carbon Dioxide Sensor (CO2)

CO2 Specified Range	400-2000 ppm
Accuracy	± (50 ppm + 5% of reading)
Response Time (reach 63%)	60 sec
Resolution	1 ppm

Temperature & Relative Humidity Sensor

Measurement Range	-10°C to +60°C (14°F to 140°F)
T. Accuracy (typ.), 15-35°C	± (50 ppm + 5% of reading)
T. Resolution	0.1°C
Relative Humidity Range	0 to +100% RH
RH Accuracy (typ.), 15-35°C	±6% RH
RH Resolution	0.1% RH
Response Time (reach 63%)	60 sec

Formaledhyde Sensor (HCHO)

Measurement Range	0-1000 ppb (parts per billion)
Accuracy	± 20 ppb or ± 20% of measured value
Resonse Time (reach 63%)	<2 min
Resolution	1 ppb

VOCs & NOx Sensor

VOC Specified Range	0.5-10 ppm (Ethanol in clean air)
NOx Specified Range	0.05-0.65ppm (NO2 in clean air)
Output Signals	VOC/NOx Index, between 1 to 500
Repeatability	± 5 VOC/NOx Index points
Limit of Detection	<0.05 ppm ethanol, <0.02 ppm NO2
Resolution	1 VOC/NOx Index point

The VOC Index is a robust measure for indoor air quality. It automatically adapts the environment the sensor is exposed to. The VOC Index shows changes of intensity of VOC events relative to the history of the room, referenced to the average of VOCs present over the last 24 hours. The Index doesn't represent absolute concentrations but refers to the typical conditions of the environment. It indicates users when air pollution changes and the room needs to be ventilated or the air purified. Regarding the NOx Index, the average condition is mapped to a value of 1 and therefore, the NOx Index displays values between 2 and 500 when NOx events are present.

Oxygen Sensor

Measurement Range	0-25% Vol
Measurement Method	Electrochemical
Stability	<2% per month
Response Time (reach 63%)	<=15sec

Cellular Communication

LTE Radio Technology	LTE Cat M1
Internal Flexible Antenna	Wideband 698-3000MHz

Wi-Fi Communication

Wi-Fi Protocols	IEEE 802.11b/g/n
Wi-Fi Models Supported	Wi-Fi Direct, Infrastructure, Remote
Wi-Fi Encryption	WEP, WPA/WPA2, WPA2-Enterprise Personal (PEAPv0/MSCHAPV2, EAP-TTLS)

Technical Specifications

Dimensions	89mm x 60mm x 20mm (3.50" x 2.36" x 0.78")
Weight	102g (3.60 Oz)
Connectors	10-pin Sensor Connector; micro USB for Charging
Battery	Integrated 1000mAh Rechargeable Li-Ion Battery
On Board Data Storage	>2 months with a Once/Minute Sampling Rate
Operating Temperature	0°C to 40°C on Charger -20°C to 60°C on Battery only
Non-Operating Temperature	-30°C to 70°C
Relative Humidity	10% to 90%
Certifications	FCC, CE
Protocol To Cloud	Sensor communication MQTTS (MQTT over TLS) OTAP and Debugging HTTPS
Ports Used	Sensors connect to the MQTT Bridge using TLS transport to communicate with the Cloud IoT Core: mqtt.googleapis.com:443(tcp) for Communication. Units periodically synchronize their internal clock using the NTP protocol. 0.pool.ntp.org 123 (udp) for Time server (Default: pool.ntp.org).

Intelligent & Sustainable Building Solutions for Healthier Environments

E360 offers proven solutions for energy-efficient and healthy buildings. We prioritize the health and comfort of employees and building occupants while reducing energy costs. Trust E360 and Sanalife to provide efficient and sustainable building solutions for your facility.

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Contact our expert solutions team today to discover how E360 can transform your facility for healthier indoor environments and building energy efficiency.

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