



MONITOR AIR QUALITY 24/7

SEN10701 NB-IoT IAQ SENSOR



Product Features

- SENSO8 SEN10701 NB-IoT IAQ Sensor provides a simple and cost-effective wireless solution for monitoring Ambient Temperature & Humidity, PM2.5, Carbon Dioxide, TVOC, Formaldehyde, Ammonia...
- Battery or DC Power Supply
- LTE Cat NB1 (NB-IoT) standard
- Color LED bar for Air Quality Index(AQI) indication
- Configurable measurement interval and alert settings
- Applications: Indoor Air Quality Monitoring for Office, Shop, Mall, School, etc....

Performance Specifications

Input Power	2 x 3.6V C Size ER26500 Lithium Battery or 8.5-15V DC, Max 1A Power Adaptor
Battery Life ⁽¹⁾	Up to 3 years ⁽²⁾
Measuring period	Battery: Every 15 mins DC Power: Every 5 mins
Data upload interval (heartbeat)	Battery: Every 60 mins, with 4 previous measurement records DC Power: Every 15 mins, with 3 previous measurement records
Alert notification	Yes, message to server
Temperature	Measurement range: -20°C to 60°C, Resolution: 0.1°C Accuracy: ±0.6°C (-20°C to -10°C), ±0.4°C (-10°C to 5°C) and ±0.2°C (5°C to 60°C)
Humidity	Measurement range: 0 to 100% RH, Resolution: 0.5% Accuracy: ±3%RH (5-20% RH), ±2%RH (20-80%RH) and ±3%RH (80-95%RH)
PM1.0, PM2.5, PM10.0	Indicatable range: 0µg/m ³ – 2,000µg/m ³ Resolution: 1µg/m ³ , Accuracy: ±10%
Carbon Dioxide (CO ₂)	Measurement range: 400ppm-5,000ppm Resolution: 1ppm, Accuracy: ±30ppm + 3% reading
TVOC	Measurement range: 0 – 10,000ppb, 1 - 2,000µg/m ³ ⁽³⁾ Resolution: 1µg/m ³ , Accuracy: (±20µg/m ³ +15%) at 1 to 1000µg/m ³
Formaldehyde (HCHO) ⁽⁴⁾	Measurement range: 0 – 10ppm Resolution: 0.01ppm, Accuracy: ±10%
Ammonia (NH ₃) ⁽⁴⁾	Measurement range: 0 - 20ppm Resolution 0.1ppm, Accuracy: ±10%
Hydrogen Sulfide (H ₂ S) ⁽⁴⁾	Measurement range: 0 - 50ppm Resolution 0.08ppm, Accuracy: ±10%
Carbon Monoxide (CO) ⁽⁴⁾	Measurement range: 0 - 50ppm Resolution 0.5ppm, Accuracy: ±10%
Nitrogen Dioxide(NO ₂) ⁽⁴⁾	Measurement range: 0 - 5ppm Resolution 0.05ppm, Accuracy: ±10%

1. Does not apply to models with PM2.5. Please contact Arwin sales representative for the battery life information for the models with PM2.5.

2. Based on 60 mins heartbeat interval, LED color bar light off

3. Compatible with WELL standard, at DC supply mode

4. One SENSO8 IAQ unit can equip with up to two EC type sensors



MONITOR AIR QUALITY 24/7

SEN10701 NB-IoT IAQ SENSOR

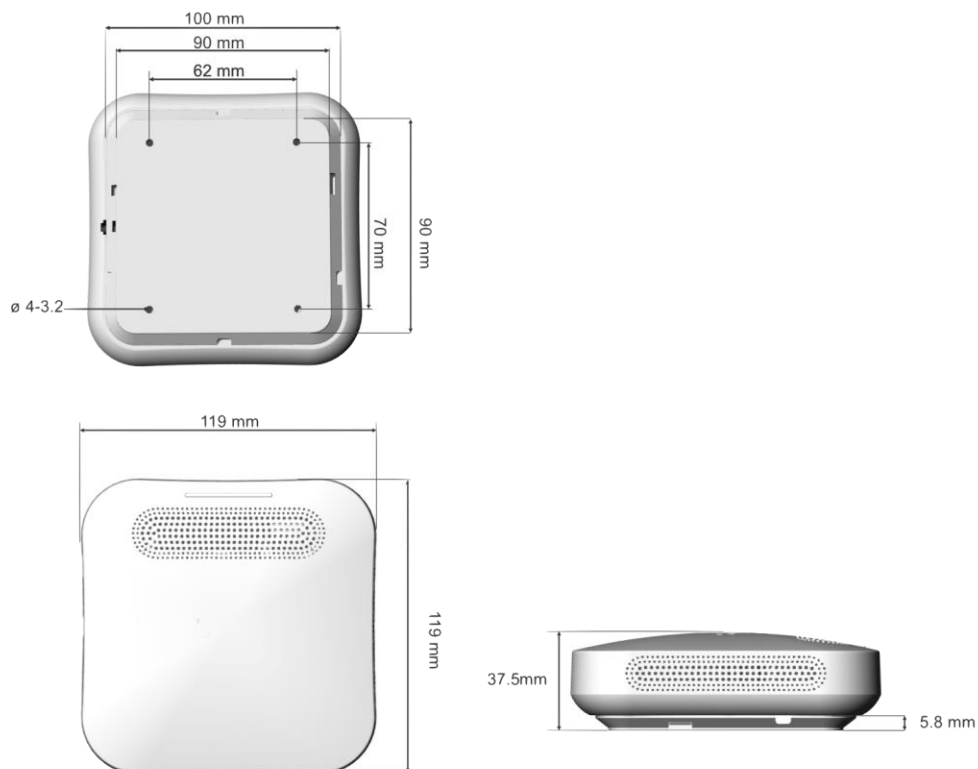
Wireless Characteristics

Wireless Connectivity	LTE Cat NB1 (NB-IoT) B1, B3, B5, B8, B20
Transmit Power	Max. 23dBm
Sensitivity	Max. -116 dBm
Antenna Type	Built-in Antenna

Physical Characteristics

Dimension	H119 mm x W119 mm x H37.5 mm
Weight	approx. 175g
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 70°C
Storage Humidity Range	10% - 95% RH
Warranty Period	1 Year

Dimensions





MONITOR AIR QUALITY 24/7

SEN10701 NB-IoT IAQ SENSOR

Ordering Information

Partnumber	Sensor Features
SEN10701-C000-xxxx	Temperature, Humidity, CO2
SEN10701-CPV0-xxxx	Temperature, Humidity, CO2, PM1.0/2.5/10, TVOC
SEN10701-CPVF-xxxx	Temperature, Humidity, CO2, PM1.0/2.5/10, TVOC, HCHO
SEN10701-AH00-xxxx	Temperature, Humidity, NH3, H2S
SEN10701-MN00-xxxx	Temperature, Humidity, CO, NO2

Nomenclature for suffix:

SEN10701-CPVF-xxab



0 – B3/B8 frequency band, 1 – B20 frequency band or others

0 – Battery (not for PM2.5) or DC power, B – PM2.5 operated by battery, W - compatible with Works with WELL

00 – default, xx – reserved for customization