

# AIRASSURE™ INDOOR AIR QUALITY MONITOR

Maintain building health and sustainability with IoT-enabled AirAssure™ Indoor Air Quality (IAQ) Monitors. Designed to install in less than ten minutes, each device measures gas and particulate pollutants along with essential IAQ parameters to help you optimize and achieve indoor air quality. Deploy one monitor or more and track real-time indoor air quality conditions in your space using TSI Link™ Solutions cloud-based software. With remote access to data and device operation controls, you'll have what is needed to make impactful decisions- anytime, anywhere.



## Features and Benefits

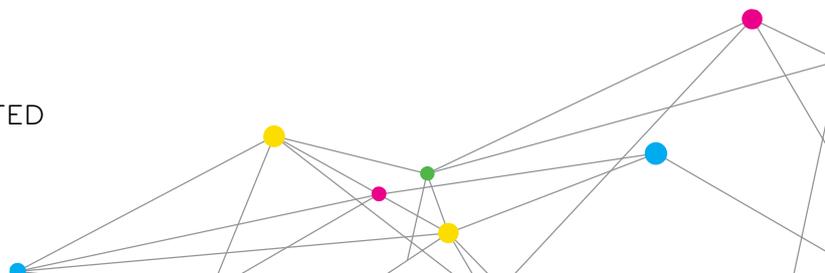
- + Easy to install - get up and running in less than 10 minutes
- + User-friendly dashboard for real-time analysis and reporting
- + Manage multiple devices remotely from the comfort of your office or home
- + Share data publicly, or keep it private
- + Set up custom alerts when certain levels are exceeded

## Ideal for

- + Schools & Universities
- + Offices Buildings
- + Hospitals & Medical Facilities
- + Industrial Buildings
- + Government & Civic Buildings
- + Hotels & Convention Centers
- + Retail Stores & Shopping Malls
- + Restaurants
- + Power Generation & Petrochemical Plants
- + Anywhere People Congregate Indoors



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# SPECIFICATIONS

## AIRASSURE™ INDOOR AIR QUALITY MONITOR

### Carbon Monoxide (CO)

Range	0 - 1000 ppm
Accuracy	±15% of reading or ±15 ppb, whichever is greater
Resolution	100 ppb
Dimensions	6.75 in x 3.5 in x 1.3 in (17.1 cm x 8.9 cm x 3.3 cm)
Weight	0.51b (0.23 kg)

### Nitrogen Dioxide (NO<sub>2</sub>)

Range	0 - 20 ppm
Accuracy	±15% of reading or ±15 ppb, whichever is greater
Resolution	1 ppb

### Sulfur Dioxide (SO<sub>2</sub>)

Range	0 - 10 ppm
Accuracy	±15% of reading or ±15 ppb, whichever is greater
Resolution	1 ppb

### Ozone (O<sub>3</sub>)

Range	0 - 20 ppm
Accuracy	±15% of reading or ±15 ppb, whichever is greater
Resolution	1 ppb

### Total Volatile Organic Compounds (tVOC)

Range	0 - 1000 ppm
Resolution	1 ppb

### Carbon Dioxide (CO<sub>2</sub>)

Range	400 - 10,000 ppm
Accuracy	± 3% of reading + 30 ppm
Resolution	1 ppm

### Formaldehyde (H<sub>2</sub>CO)

Range	0 - 1000 ppb
Accuracy	±20% of reading + 20 ppb, whichever is greater
Resolution	1 ppb

### Particulate Matter (PM)

Range	0 - 1000 µg/m <sup>3</sup>
Accuracy	±10 µg/m <sup>3</sup> (0 - 100 µg/m <sup>3</sup> ) ±10% of reading (100 - 1000 µg/m <sup>3</sup> )
Resolution	1 µg/m <sup>3</sup>

### Relative Humidity (RH)

Range	0 - 100% RH
Accuracy	± 3% RH ±10% of reading (100 - 1000 µg/m <sup>3</sup> )
Resolution	1% RH

### Temperature (T)

Range	0-60 °C
Accuracy	+/- 0.5 °C
Resolution	0.1 °C

### Barometric Pressure (BP)

Range	7.7 - 37.2 in HG (270 - 1185 hPa)
Accuracy	± 0.12 in Hg (± 4 hPa)
Resolution	0.01 in Hg (1 hPa)

### AC and DC Power Requirements

24VAC Back Panel	24VAC, 50/60 Hz
USB-C	AC/DA Adapter Input: 100 - 240VAC, 50 - 60Hz AC/DC Adapter Output: 5VDC
Power Consumption	< 5 W

### Hardware Model Numbers

8144-2	AirAssure IAQ - CO <sub>2</sub> , TVOC + PM2.5, PM10, T, RH, BP
8144-4	AirAssure IAQ - CO <sub>2</sub> , CO, H <sub>2</sub> CO, TVOC + PM2.5, PM10, T, RH, BP
8144-6	AirAssure IAQ - CO <sub>2</sub> , CO, NO <sub>2</sub> , SO <sub>2</sub> , O <sub>3</sub> , TVOC + PM2.5, PM10, T, RH, BP

### Models Include

Universal USB power supply & cable  
24 VAC terminal connector  
32GB Micro-SD card (installed)  
Mounting Kit

### Parts

814408	8144-2 Replacement sensor cartridge - TVOC, BP, T, RH
814401	8144-4 Replacement sensor cartridge - CO, TVOC, BP, T, RH
814402	8144-6 Replacement sensor cartridge - CO, SO <sub>2</sub> , O <sub>3</sub> , NO <sub>2</sub> , TVOC, BP, T, RH
814403	Replacement PM sensor
814404	Replacement CO <sub>2</sub> sensor
814405	Replacement H <sub>2</sub> CO sensor
814406	Replacement power supply kit
814407	Replacement membrane filters (pack of 3)

### Software

The AirAssure™ IAQ Monitor integrates with the TSI Link™ Solution, where you can manage your devices from your home or office. Visit [tsi.com/tsiink](http://tsi.com/tsiink) for more details.

Specifications are subject to change without notice.

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