



BUILDINGS



HEALTH CARE



RESIDENTIAL



TRANSPORTATION

AIRTHINX IAQ

AN INSTRUMENT FOR PROFESSIONALS

Airthinx's Indoor Air Quality (IAQ) monitor is the first Internet of things (IoT) device that delivers simultaneous real-time measurements of Particles (PM 1, PM 2.5, and PM 10), Gasses (VOCs, CO₂, and CH₂O), and Environmental Conditions (Temperature, Humidity, and Pressure) with the level of accuracy of an industry standard reference instrument, at a fraction of the cost. The portable monitor packs all of these sophisticated features into a modern lightweight product designed to work right out of the box-no need for configuration. Once mounted to any wall, it is always connected to the cloud and provides the user with access to all their data anytime, anywhere directly from the web.

SPECIFICATIONS:

GAS SENSOR

CH₂O	Effective Range:	0-1 mg/m ³
	Resolution:	0.001 mg/m ³
	Maximum Error:	<5% FS
CO₂	Effective Range:	0-3000 ppm
	Resolution:	1 ppm
	Maximum consistency Error:	350ppm+5%FS
	Single Response Time:	< 3 sec.
	Total Response Time:	≤ 25 sec.
TVOC	Effective Range:	1-30ppm of EtOH
	Sensitivity:	0.15 - 0.5 Rs (10ppm of EtOH)/ Rs (air)

ENVIRONMENTAL SENSORS

Tempature	Range	0-99°C
	Resolution:	0.1 °C
	Maximum Error:	30.5 °C
Humidity	Range	0-99 %RH
	Resolution:	0.1 %RH
	Maximum Error:	32 %RH
Barometer	Range	300-1100 hPa
	Resolution:	30.12 Pa
	Maximum Error:	31.3 Pa

PM SENSOR

PM1, PM2.5, PM10:	0.3-1.0; 1.0-2.5; 2.5-10 Qm
Effective Range:	0-500 Qg/m ³
Resolution:	1 Qg/m ³
Efficiency:	98%>=0.5Qm
Maximum Consistency Error:	310% @100-500 Qg/m ³
Standard Volume:	0.1L

GENERAL

Input Voltage :	5 VDC (micro-USB)
Power:	0.6 Watt
Operating Temperature:	-30 °C to 75 °C (-22 F to 167 F)
Accelerometer:	16g (13-bit resolution)
Dimensions (LxWxD):	4.3in (110mm) x 2.6in (66mm) x 1.2in (30mm)
Weight:	0.4 Lbs (0.18 kg)
Certifications:	CE, FCC, PTCRB

COMMUNICATIONS

Cellular:	GSM/GPRS/EDGE 850, 900, 1800, 1900 MHz UMTS/HSPA 800/850, 900, AWS 1700, 1900, 2100 MHz
WiFi:	802.11 b/g
Bluetooth:	Bluetooth 4.0
Mesh:	Zigbee, LoRa
GPS:	Sensitivity > -165dBm, 3m Accuracy, A-GPS
Antenna:	Built-in (GPRS, 3G, GPS, Zigbee, Bluetooth, LoRa)
SIM Card:	Built-in