airthinx IAQ

Technical Specifications



Real-Time Indoor Air Quality Monitoring

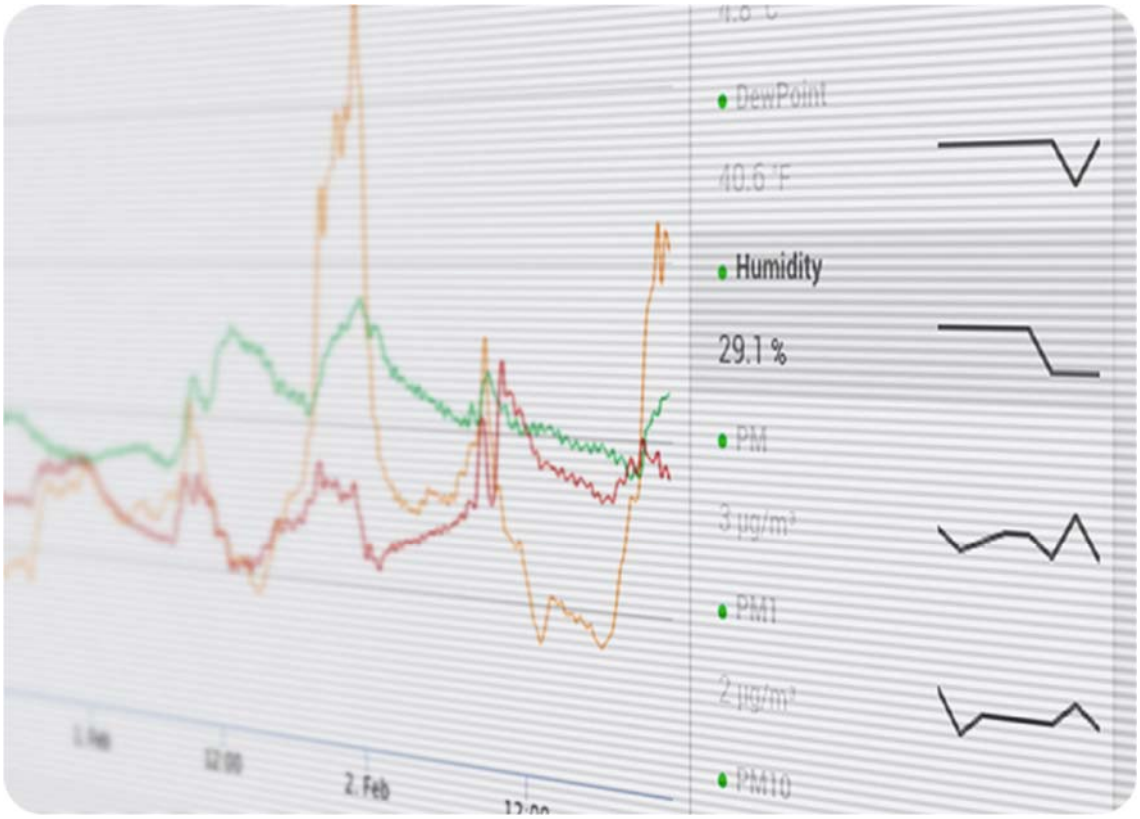
Aethair IAQ monitors 9-parameters of indoor air quality including PM1, PM2.5, PM10, tVOC, Formaldehyde, CO2, Temperature, Humidity, and Pressure. Calibrated and certified according to global institutional standards, with performance correlating over 90% to reference instruments, but at a fraction of the price. Aethair IAQ accurately monitors and continuously reports on-site air quality in real-time, enabling effective remediation, informed decision-making, and even automated responses. Data can be accessed any time of day, and remotely from anywhere in the world.

Certified Calibrated Devices

Aethair devices are delivered fully calibrated and certified, allowing immediate operation and quicker deployment

24/7 Remote Data Access

Remotely access collected and real-time data from anywhere in the world, at any time, on the Aethair Environet web console.



Product Specifications







PM Sensors		**PM 1, PM 2.5, PM 10**	0.3~1.0; 1.0~2.5; 2.5~10 µm
		Effective Range	0 - 500 µg/m³
		Resolution	1 µg/m³
		Efficiency	98%>=0.5µm
		Maximum Consistency Error	± 10%
		Standard Volume	0.1L
Gas Sensors	CH_2O	**Effective Range**	0 - 1 mg/m³ (0 - 814 ppb)
		Resolution	0.001 mg/m³
		Maximum Consistency Error	± 5%
	CO_2	**Effective Range**	400 - 5000 ppm
		Resolution	1 ppm
		Maximum Consistency Error	± 50ppm + 2%
		Single Response Time	< 3 sec.
		Total Response Time	≤ 25 sec.
	Total VOCs	**Effective Range**	0 - 10 ppm
		Maximum Consistency Error	± 15%
Environmental Sensors	**Temperature**	**Range**	0° - 45° C
		Resolution	0.1 °C
		Maximum Error	± 0.5° C from 15° - 30° C
	Humidity	**Range**	15 - 75% RH
		Resolution	0.1 %RH
		Maximum Error	± 2 %RH
	Barometer	**Range**	300-1100 hPa
		Resolution	± 0.12 Pa
		Maximum Error	± 1.3 Pa
	Dew Point & **Heat Index** (Additional Parameters)		

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Product Specifications

Communications	**Cellular**	LTE/HSPA+/HSPA/GPRS
	WiFi	802.11 b/g
	Bluetooth	Bluetooth 4.0
	Mesh	Zigbee
	GPS	A-GPS
	Antenna	Built-in (GPRS, 3G, Zigbee, Bluetooth)
	SIM Card	Built-in
General	**Input Voltage**	5 VDC (micro-USB)
	Power	0.6 Watt
	Operating Temperature	0° - 45° C
	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