

# airthinx IAQ

Technical Specifications



# Product Specifications



## PM Sensors

PM 1, PM 2.5, PM 10	0.3~1.0; 1.0~2.5; 2.5~10 $\mu\text{m}$
Effective Range	0 - 500 $\mu\text{g}/\text{m}^3$
Resolution	1 $\mu\text{g}/\text{m}^3$
Efficiency	98% $\geq$ 0.5 $\mu\text{m}$
Maximum Consistency Error	$\pm$ 10%
Standard Volume	0.1L

## Gas Sensors

CH <sub>2</sub> O	Effective Range	0 - 1 mg/m <sup>3</sup> (0 - 814 ppb)
	Resolution	0.001 mg/m <sup>3</sup>
	Maximum Consistency Error	$\pm$ 5%
CO <sub>2</sub>	Effective Range	400 - 5000 ppm
	Resolution	1 ppm
	Maximum Consistency Error	$\pm$ 50ppm + 2%
	Single Response Time	< 3 sec.
	Total Response Time	$\leq$ 25 sec.
Total VOCs	Effective Range	0 - 10 ppm
	Maximum Consistency Error	$\pm$ 15%

## Environmental Sensors

Temperature	Range	0° - 45° C
	Resolution	0.1 °C
	Maximum Error	$\pm$ 0.5° C from 15° - 30° C
Humidity	Range	15 - 75% RH
	Resolution	0.1 %RH
	Maximum Error	$\pm$ 2 %RH
Barometer	Range	300-1100 hPa
	Resolution	$\pm$ 0.12 Pa
	Maximum Error	$\pm$ 1.3 Pa

Dew Point & Heat Index (Additional Parameters)

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## 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