

aethair | IAQ

2nd Generation

Technical 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 $\mu\text{g}/\text{m}^3$
Resolution	1 $\mu\text{g}/\text{m}^3$
Efficiency	98% \geq 0.5 μm
Maximum Consistency Error	\pm 10%
Standard Volume	0.1L

Gas Sensors

CH ₂ O	Effective Range	0 - 1 mg/m^3 (0 - 814 ppb)
	Resolution	0.001 mg/m^3
	Maximum Consistency Error	\pm 5%
CO ₂	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	Range	0 - 1 ppm
	Resolution	0.05 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)

Communications

Cellular	4G LTE / 3G / 2G
WiFi	802.11 b/g
Bluetooth	Bluetooth 4.0
Mesh	Zigbee
GPS	A-GPS
Antenna	Built-in (GPRS, 2G/ 3G / 4G, 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