Specifications

uHoo

Dimensions

6.3 inch
(161 mm)

3.3 inch
(85 mm)

Sensors

Carbon Dioxide (CO_2)

Range: 400 to 10,000 ppm
Resolution: 1 ppm
Tolerance: ± 50 ppm or
± 3% of reading[*1]

Particulate Matter ($PM_{2.5}$)

Range: 1 to 200 µg/m3
Resolution: 1 µg/m3
Tolerance: ± 15 µg/m3 or
± 10% of reading[*]

Nitrogen Dioxide (NO_2)

Range: 0 to 1,000 ppb
Resolution: 1 ppb
Tolerance: ± 10 ppb or
± 5% of reading[*]

Relative Humidity

Range: 0 to 100 %
Resolution: 0.1%
Tolerance: ± 3%

Air Pressure

Range: 300 to 1,100 mBar
Resolution: 0.1 mBar
Tolerance: ± 1 mBar

Carbon Monoxide (CO)

Range: 0 to 1,000 ppm
Resolution: 0.1 ppm
Tolerance: ± 2 ppm or
± 5% of reading[*]

Temperature

Range: -40 to 85°C
Resolution: 0.1 °C
Tolerance: ± 0.5°C

Airborne Chemicals (VOCs)

Range: 0 to 1,200 ppb
Resolution: 1 ppb
Tolerance: ± 10 ppb or
± 5% of reading[*2]

Ozone (O_3)

Range: 0 to 1,000 ppb
Resolution: 1 ppb
Tolerance: ± 10 ppb or
± 5% of reading[*]

* Choose higher of the two.
[1] CO2 sensor will achieve operational accuracy after 48 hours of continuous operations, and it may take up to 3 weeks to achieve the specified accuracy using its auto-calibration algorithm.
[2] TVOC sensor is calibrated using standard mixtures of formaldehyde, toluene, acetone, acetaldehyde and a few other VOC gases, however it may also respond to other VOCs in the air.

Product Specification

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Model name:	Indoor Air Quality Sensor
Security:	128-bit AES end-to-end encryption
Processor:	32-bit ARM-based
User interfaces:	Native iOS and Android apps
Certifications:	FCC, CE, PSE, RoHS and REACH
Power consumption:	900mW (normal operation) and 1.5W (data transmission)
Operating temperature:	0 to 40 °C
Operating humidity:	5% to 95%, non-condensing

Design Specification

Body material:	ABS thermoplastic polymer
Base material:	Silicone rubber with stainless steel insert
Dimensions:	85mm x 85mm x 161mm or 3.3in x 3.3in x 6.3in
Weight:	270g or 0.6lbs
Status indicator:	RGB LED

System Requirements

Wi-Fi network:	802.11 b/g/n @ 2.4GHz with WPA2-Personal security Dedicated 5GHz Wi-Fi network and Enterprise security not supported
Power supply:	5V/2A USB adapter and cable (provided by uHoo)
Interface:	Smartphone or tablet iOS 10.0 (64-bit devices) or Android 4.2 and above
Software:	Free uHoo mobile app Free uHoo account

Contact Us

uhooair

uhooair.com

uhooair

hello@uhooair.com