![uHoo™]

# uHoo Aura 2
# Technical Specifications
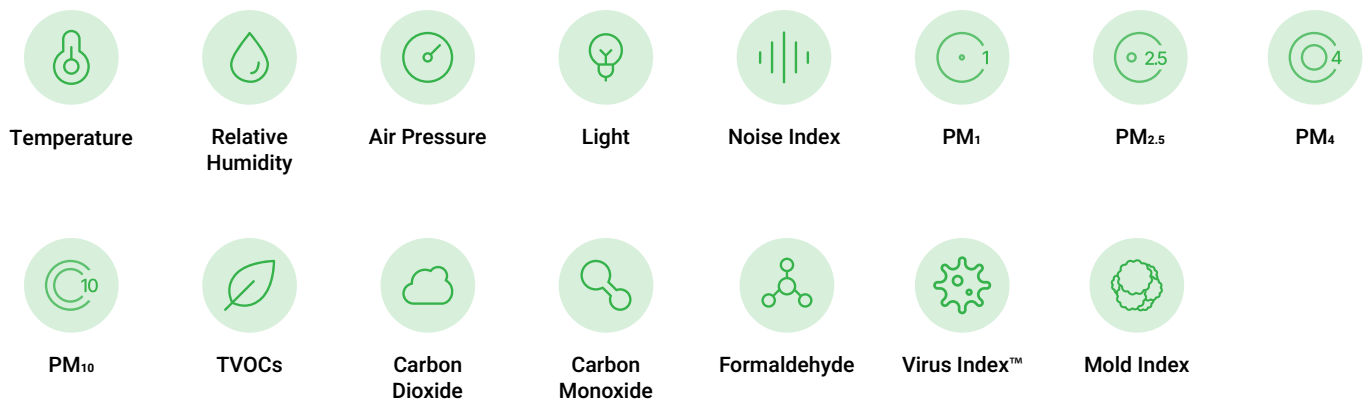
Wall-mounted, table top or ceiling-mounted Environmental Quality Monitor



WORKS WITH WELL   RESET INTERNATIONAL STANDARD   GRESB Solution Provider

## uHoo Aura 2

The Most Comprehensive Environmental Quality Monitor

| Temperature | Relative Humidity | Air Pressure | Light | Noise Index | PM$_1$ | PM$_{2.5}$ | PM$_4$ |

| PM$_{10}$ | TVOCs | Carbon Dioxide | Carbon Monoxide | Formaldehyde | Virus Index™ | Mold Index |

## Take control with uHoo Business and #StayOnTopOfSafety

Take your first step to a healthier, safer and more productive workplace.

Partner with us and future-proof your business.
Learn more and send a message to **business@getuhoo.com**

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## uHoo Aura 2
# Technical Specifications

## General

| | |
|---|---|
| Installation: | Wall-mounted / Table-top / Ceiling-mounted |
| Operating Temperature: | -10 °C to 60 °C (14 °F to 140 °F) |
| Operating Humidity: | 0% to 95% non-condensing |
| Built-in Fan: | Yes |
| OTA Firmware Update: | Yes |
| Accessories: | 5V/2A USB Adapter (Region-specific), 2m USB Data Cable, Mounting Tape, Tapping Screws, Wall Plugs, Air Health and Virus Index Sticker |

## Design

| | |
|---|---|
| Dimensions (W x L x D): | 200mm x 180mm x 57mm or 7.8in x 7.1in x 2.2in |
| Weight: | 765g or 1.7lbs |
| Material: | ABS Plastic |
| Mechanical Protection: | IP43 Ratings with Dust-filtering Mesh |
| Light Indicators: | SIM, Wi-Fi, Battery |
| Screen Display: | No |
| Main Power Source: | 5V/2A USB Adapter PoE (Power over Ethernet) |
| Backup Power Source: | 3250mAh @ 3.6V Lithium-ion Battery |
| Power Consumption: | 270mW (4G) 260mW (Wi-Fi) |

## Data

| | |
|---|---|
| Frequency: | Once per Minute |
| Backup: | Up to 24 hours during network outage. Permanent on Cloud. |
| Format: | Minute-by-minute or Hourly-average |
| APIs: | Yes. Polling only. |

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## ⋮⋮⋮ User Interface

| | |
|---|---|
| uHoo Account: | Contact **business@getuhoo.com** for account registration |
| Web Dashboard: | **https://web.getuhoo.com** (supports all major browsers) |
| Mobile App: | uHoo Business |
| Minimum OS Requirement: | iOS 11 (64-bit Devices) and above, or Android 5.0 and above |

## 🎗 Certifications

| | |
|---|---|
| Radio: | FCC, IC, CE, TELEC, NTC |
| Safety: | FCC, IC, CE, PSE |
| Battery: | UN38.3, UL 62368, CB (IEC 62133-2017), PSE |
| Environmental: | RoHS, REACH, WEEE, Free of SCCP and HBCDD Contents, Green Building Product (SGBC), Works with WELL and GRESB |
| Performance: | MCERTS, RESET Air Accredited Grade B monitor, RESET Accredited Data Provider, WiredScore Accredited Solution, ISO-17025 Accredited, Complies with WELL Certification Performance Verification Guidebook requirements |

## 🔗 Connectivity  *Choose your connectivity protocol from the following options\**

### 1. Cellular

| | |
|---|---|
| Standard: | 4G LTE |
| Frequency Bands: | 1/2/3/4/5/7/8/12/13/20/25/28/34/38/39/40/41/66 (Global connectivity) |
| SIM Card: | Micro-SIM pre-configured and shipped with the product |

### 2. Wi-Fi (Setup using mobile app)

| | |
|---|---|
| Standard: | 802.11 a/b/g/n @ 2.4GHz and 5GHz (20MHz Channels Only) |
| Security: | Open, WEP, WPA/WPA2-Personal |
| IP Addressing: | IPv4 + DHCP |

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## ⊞ Sensor Modules

**uHoo Aura 2 Base Device Measures the Following:**

Temperature, Relative Humidity, Air Pressure, Light, Noise Index, $PM_1$, $PM_{2.5}$, $PM_4$, $PM_{10}$, TVOCs, Carbon Monoxide (CO), Carbon Dioxide ($CO_2$), Formaldehyde (HCHO), Virus Index™ and Mold Index.

In addition to the 13 sensors of the uHoo Aura base device, you can customize it to measure more parameters by choosing up to three more sensors for Module A from the list below.

| | |
|---|---|
| **Module A** <br> *(Built to order and the lead time depends on which sensor combination is preferred.)* | a. Nitrogen Dioxide ($NO_2$) <br> b. Ozone ($O_3$) <br> c. Sulfur Dioxide ($SO_2$) <br> d. Hydrogen Sulfide ($H_2S$) <br> e. Ammonia ($NH_3$) <br> f. Carbon Monoxide (CO) |
| **Module B** | Temperature, Relative Humidity, Carbon Dioxide ($CO_2$), TVOCs, Air Pressure |
| **Module C** | $PM_1$, $PM_{2.5}$, $PM_4$, $PM_{10}$ |

## ((•)) Sensor Specifications

| | Sensors | Range | Resolution | Accuracy |
|---|---|---|---|---|
| 🌡 | Temperature | -40 to 85 °C | 0.1 °C | ±0.2 °C* |
| 💧 | Relative Humidity | 0 to 100% | 0.1% | ±1.5%** |
| ⏲ | Air Pressure | 300 to 1,100 hPa | 0.1 hPa | ±1 hPa |
| 💡 | Light | 0 to 40,000 lux | 1 lux | ±20 lux or ±5% of actual value, whichever is higher. |
| ⠇⃝⃒ | Noise Index | 30 to 120 dBA | 1 dB | ±3 dB |
| ⊙ | $PM_1$ | 0 to 1,000 $\mu g/m^3$ | 1 $\mu g/m^3$ | ±5 $\mu g/m^3$ (0 to 50 $\mu g/m^3$) <br> ±10% (50 to 1,000 $\mu g/m^3$) |
| ⊙ | $PM_{2.5}$ | 0 to 1,000 $\mu g/m^3$ | 1 $\mu g/m^3$ | ±5 $\mu g/m^3$ (0 to 50 $\mu g/m^3$) <br> ±10% (50 to 1,000 $\mu g/m^3$) |
| ◎ | $PM_4$ | 0 to 1,000 $\mu g/m^3$ | 1 $\mu g/m^3$ | ±5 $\mu g/m^3$ (0 to 50 $\mu g/m^3$) <br> ±10% (50 to 1,000 $\mu g/m^3$) |
| ◎ | $PM_{10}$ | 0 to 1,000 $\mu g/m^3$ | 1 $\mu g/m^3$ | ±5 $\mu g/m^3$ (0 to 50 $\mu g/m^3$) <br> ±10% (50 to 1,000 $\mu g/m^3$) |
| 🍃 | TVOCs | 0 to 60,000 ppb | 1 ppb | ±15% |
| ☁ | Carbon Dioxide | 400 to 10,000 ppm | 1 ppm | ±30 ppm plus 3% of actual value |

*±0.5 °C if there are factors in the immediate proximity that would affect the air surrounding the device such as heat sources, vents, or fans*

*±3% if there are factors in the immediate proximity that would affect the air surrounding the device such as heat sources, vents, or fans*

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| | Sensors | Range | Resolution | Accuracy |
|---|---|---|---|---|
| | Carbon Monoxide | 0 to 1,000 ppm | 0.1 ppm | ±0.8 ppm (0 to 20 ppm)<br>±5% (20 to 1,000 ppm) |
| | Formaldehyde | 0 to 2,000 ppb | 1 ppb | ±30 ppb (0 to 300 ppb)<br>±10% (300 to 2,000 ppb) |
| | Nitrogen Dioxide | 0 to 5,000 ppb | 1 ppb | ±20 ppb (0 to 100 ppb)<br>±20% (100 to 5,000 ppb) |
| | Ozone | 0 to 5,000 ppb | 1 ppb | ±10 ppb (0 to 100 ppb)<br>±10% (100 to 5,000 ppb) |
| | Ammonia | 0 to 20 ppm | 0.1 ppm | ±0.5 ppm (0 to 5 ppm)<br>±10% (5 to 20 ppm) |
| | Sulfur Dioxide | 0 to 25 ppm | 0.1 ppm | ±1 ppm (0 to 10 ppm)<br>±10% (10 to 25 ppm) |
| | Hydrogen Sulfide | 0 to 50 ppm | 0.1 ppm | ±1 ppm (0 to 10 ppm)<br>±10% (10 to 50 ppm) |