UbiBot ® AQS1 is a cloud-based smart indoor air quality sensor. It has a compact size and light weight. Its built-in industrial-grade professional high-precision sensors can monitor temperature, humidity, air pressure, CO2, TVOC, PM1.0, PM2.5, PM10, eCO2.

With a WiFi or Cellular network connection (depending on the specific model purchased), it automatically synchronizes data to the UbiBot ® IoT Platform, giving you remote access to your data via UbiBot App or Web Console platform on a PC anywhere in the world and allowing you to receive alerts and monitor the environment in real time. With the fast response and accurate measurements, it automatically determine the quality level of different parameters at a glance.

Connect Air Quality Sensor AQS1 with Smart Plug SP1 to linkage control a variety of electrical appliances and achieve intelligent operation of air conditioning, heaters, furnaces, air purifiers, and other equipment to control the temperature, humidity, dust removal, VOCs and CO2.

FEATURES

·Professional-grade high-precision sensors ensure the accuracy of monitoring data
·Total 9 metrics monitoring to meet various usage scenarios
·Intelligent rating of the air quality
·2.4 GHz and 2.4/5 GHz WiFi connection or GPRS/3G/4G connection; no need of hubs or gateways
·Free App & Web Console to access and monitor real-time data remotely; no subscription fee
·Unlimited UbiBot cloud storage for historical data; free historical data export
·Multiple ways of real-time alerts: App, Email, SMS, Voice call (fees may apply), HTTP, API forwarding
·RS485 output for integration with fresh air systems and centralized control units
·Working with Smart Plug SP1 to linkage control a variety of electrical appliances and achieve intelligent operation
·Working with IFTTT, Amazon Alexa, Google Home, Google Assistant
·Easy setup with free UbiBot App or PC tools
·Memory with a capacity of 300,000 records stores all data even if the network is temporarily disconnected, which ensures there are no gaps in the data history

NOTE:

- AQS1 is not waterproof. The optimal operational environment is 5~95%RH (no condensation). Long-term exposure to a high-humidity environment, over 90% RH, may cause damage to the device.

- The TVOC sensor needs to warm up for 1 hour (after the device been powered up) before stable.

- For WiFi connection, AQS1 can work with a 2.4 GHz WiFi network or 2.4/5 GHz mixed network. 5 GHz WiFi is not supported.

SPECIFICATIONS

Technical specifications

Temperature: Measuring range -20℃~60℃; Accuracy 0.3℃

Humidity: Measuring range 10%~90%; Accuracy: 3%RH

Atmospheric pressure: Measuring range 26~126 kPa

PM1.0/PM2.5/PM10: Measuring range 0~500 μg/m³; Accuracy 10% @100~500 μg/m³, 10 μg/m³ @0~100 μg/m³

Carbon dioxide CO2: Measuring range 0~10000 ppm (400-2000 higher-accuracy measurement range); Accuracy 30 ppm

Volatile gas TVOC: Measuring range 0~65000 ppb

eCO2: Measuring range 400~65000 ppm

Network connection

WiFi 2.4GHz (1-13 channels) / Mobile Network (Depending on the specific model purchased)

Operating environment

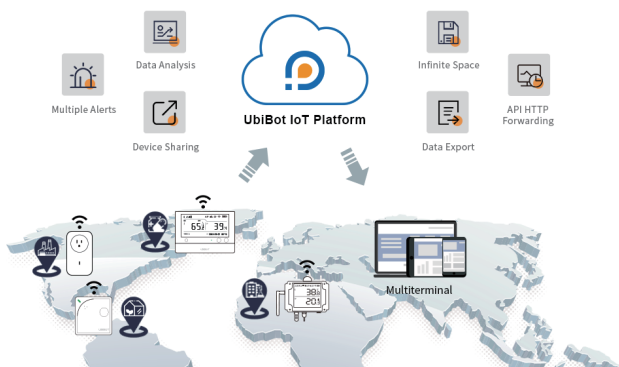Temperature -10℃~50℃, Humidity 5~95%RH (no condensation)

Physical specifications

Dimension: Φ128mm x 40mm

Material: Flame retardant ABS

Color: White

Power supply: Type C / DC12V

UbiBot Cloud IoT Platform

Data Management: Manage all your IoT data in one place; you could add as many devices as you want to one UbiBot account.

Unlimited Storage: Unlimited cloud-based storage ensures you will never run out of space. This allows you to view all your historical data via UbiBot App or Web.

Free App & Web Console: Using **UbiBot App** and **Web Console** is free. Powerful and thoughtful features provide you brilliant experience.

Analysis and Visualization: Use powerful analysis and visualization tools to get the most out of your data; spot trends and direct comparisons.

Real-Time Alerts: Fully customizable alert system will notify you via **App notifications, emails, phone call/SMS, HTTP** whenever any metric goes out of the range preset.

Highly Secure Platform: UbiBot IoT platform is designed to keep all your data secure so you never have to worry about hackers or other security issues.

Third-Party Services: Working with **IFTTT, Alexa, Google Assistant, Google Sheet**

Compliant with FDA CFR21