Honeywell

City Air

On average, we spend 80-90% of our time indoor When PM_{2.5} increase from 25 to 200, death rate goes up 11% When Carbon Dioxide (CO₂) concentration exceed 1000ppm, work productivity decreases Each year in China, estimate 111 thousands death caused by poor indoor air quality Each year in China, estimate 4.3 million emergency cases are caused by indoor air quality

Honeywell



Monitor device collects real-time air quality data, upload it to our cloud platform for data storage and analysis. Air Quality Index (AQI) reading can be viewed from the web platform and APP, provide instant data for building owners, managers, tenants. With the knowledge of your building's air quality, it could help increase energy efficiency, work productivity, even enhance value of the building.



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APPLICATION

3. Display



WEB Platform

From your computer, monitor device can be graded and managed by region. Highly compatible with HD Display and Commecial Ad Screen.



APP

Our APP can be used for data display, our APP can be assessed remotely, manage air quality for different region from anywhere.

OTHER

4. Smart Eco-Control



Smart Eco-Control System

Applicable with ventilation, air purification



Ventilation/Purifier

When air is poor, it can be smart-adjusted according to user's ideal scenirio, automatically start ventilation and purifier device, optimize indoor air quality.



Applicable Offi Scenario Gre Sho Hot Hos Sch GYI Ret Sto Put

Office Building Green Building Shopping Mall Hotel | Room Hospital | Ward School | Classrom GYM Retail Store Storage | Logistic Public Facility



The purpose of assessing indoor air quality environment is to situate oneself in a safe, healthy and comfortable individuals, which can lead to higher efficiency. The current assessment of indoor air quality evaluate based on the criteria for known concentrations of contaminants to not exceed recognized concentrations, when senses of smell do not make people feel uncomfortable. Controls in Indoor Air Quality Standards include physical, chemical, biological and radiological parameters related to human health in indoor air. Indoor air is characterized by indoor pollutants may be completely different with the outdoor. Our solutions cover both indoor and outdoor use, and our products can be used for air quality monitoring, health and safety management.

CityAir-D1

CityAir-D1 Monitor, the device consists of 5 key parameters. Online sampling with the built-in filter film will not cause any radioactive sources, suitable for any indoor environment and evaluation for air purifying efficiency. Device transmit 485 signals and communicates via Wi-Fi, can easily integrate onto building automation system.

Product Feature

- MEMS optical sensing technology
- Industrial level resolution
- 32 bits microprocessor
- Online monitoring, real-time data transmission
- High-integration, meets multi-monitoring demands
- Support Wi-Fi and 485 communication
- Patented air duct drainage technology



Diameter 131 mm Height 45 mm

CityAir-D2



CityAir-D2, LED display, monitor multiple air quality related parameters, it also include light and noise, and such parameters can be used to conduct real-time monitoring for indoor and in-vehicle. Monitored data can help to evaluate indoor environment, and smart-control building ventilation and air filtering system.

Product Feature

- Active sampling
- Industrial level resolution
- Patented Air duct flow technology for stability
- Modulated design for different combination
- Electrochemical sensors calibrate based on real gas
- High-integration, meets multi-monitoring demands
- Support MQTT protocol



L 153 mm W 153 mm H 36 mm

CityAir-D3



CityAir-D3 is a CE certified duct standard air quality monitor. The shell uses corrosion resistant aviation aluminum material and has an IP65 outer layer protection to ensure the device to fully function for outdoor environment. Fix-time semiconductor relay can control the time for the sampling pump in order to prevent foreign matter to enter the ventilation system while system is offline. For data accuracy, sampling tube adopts PU Polyurethane Antistatic hose, which can effectively control particles from residing on the wall of the tube when the device have been working for a long time.

Product Feature

- Preset time for the gas pump working hour
- Special sampling technology, do not absorb particulate
- Up to 12000 hours life span for air pump
- Separate gas monitor chamber for stable airflow
- Multiple communication transmission modes



L 250 mm W 100 mm H 150 mm

AIR QUALITY PARAMETERS



CityAir series air quality monitor measure air quality and its level of pollutant. It can be applied to any indoor environment, such as office building, hotel, school, gym, it can also connect to the ventilation and purifying system. Device transmits 485 signals and communicates via Wi-Fi. When it comes to choosing the right monitor for your environment, keep in mind the importance of monitor's linearity, range, as well as its drift and calibration time.

Below enlist measurable parameter:

Parameter	D1	D2	D3
Temperature	٠	٠	٠
Humidity	٠	٠	٠
PM _{2.5}	•	•	٠
Carbon Dioxide	٠	٠	٠
тиос	٠	٠	٠
Formaldehyde		٠	
PM ₁₀		0	0
Pressure		0	
Light		0	
Noise		0	

Standard Optional

CityAir air quality monitoring can select different sensors according to the needs of monitoring purpose. We have enlisted the parameter below for our user to select from. Please contact our CityAir support team, we can provide professional consultation to help you select the most suitable monitor for your environment.

Parameter	Range	Linearity	Resolution
Temperature	0 - 40°C	±2°C	0.1°C
Humidity	0 - 85%RH	±5%RH	1%RH
Carbon Dioxide	400 - 2000ppm	±70ppm ±5% reading	1ppm
PM ₁₀	0 - 1000µg/m³	±10% reading (>100µg/m) ³	1µg/m³
тиос	125 - 2000ppb	±(10+10% reading)	1ppb
Formaldehyde	0 - 5ppm	±15% reading	10ppb
PM2.5	1 - 500µg/m³	±(5+10% of reading)<@50 ±(20 of reading)<@500	1µg/m³
Pressure	30 - 120Kpa	1Кра	0.4Kpa
Light	0 - 65535lux	±10% reading	1lux
Noise	30 - 100dB	5dB	1dB



THE INTERNET OF AIR QUALITY

Cloud server collects, compute and logs data. It is equipped with graded and region management. Compare and contrast between indoor and outdoor data, the cloud platform allow users to be able to view the productivity of ventilation and air purifier, helps user to achieve energy efficiency, enhancebuilding overall air quality and employee productivity.



CityAir Cloud

CityAir Cloud is an air quality cloud-based platform, it receives real-time air quality data from the monitored device and transform it into values and ways that could help user to better manage indoor environment. CityAir Cloud makes quality air and healthy environment for individual into a possibility.

We have established scientific algorithm for measuring healthy building air quality. We have also used our cloud computation to ensure collected data are precise and not effected by factors such as temperature or other environmental factors.



Multitier Architecture Diagram

CityAir Display

Display is high customizable with graded and region management. It includes heat map to have an overview of monitor area.



The web platform can display air quality, energy efficiency, healthy quality index, it can also integrate company video and message board.



CityAir Mobile

APP can support both IOS and Android system. After the initial registering, you will able to pair your monitor. From mobile device, user can add-on monitor by grade and organize by region. Air quality data can be accessed at any time from anywhere.





APP provide real-time indoor air quality, easily access from mobile device.

Additionally, APP includes tips that could help to improve the air quality near you.



