



BRAMC BR-A18 6-in-1 Desktop Air Quality Monitor

PM1.0, PM2.5, PM10, Formaldehyde (HCHO), CO2, VOCs



Model: BRAMCA18
 Manufacture warranty: 12 months
 Country of Origin: China

Product Overview

BR-A18 desktop 6-in-1 air quality monitor is a real-time air quality monitoring instrument used to detect PM1.0, PM2.5, PM10, carbon dioxide (CO2), formaldehyde (HCHO) concentration and VOCs in the indoor environment. This product uses high-precision sensor chip and operation, will convert PM1.0, PM2.5, PM10, CO2, formaldehyde and VOCs concentration in the air into visual data, to monitor the air quality, provide effective protection for family health.

Scope of application

Any indoor environment, such as inside the house, warehouse, factory, office, and any indoor environment.



Built-in ambient brightness sensor

Light the screen during the day

Automatic screen off at night



Product Highlights

1. **PM particulate matter measurement** — air quality monitor can test indoor fine particle pollution. 6-channel tiny particle number testing (Number of particles / liter)—
— $\text{pm}0.3$ / $\text{pm}0.5$ / $\text{PM}1.0$ / $\text{PM}2.5$ / $\text{PM}5.0$ / $\text{PM}10$; 3-channel particulate matters quality detection ($\mu\text{g} / \text{m}^3$)—
— $\text{PM}1.0$ / $\text{PM}2.5$ / $\text{PM}10$
2. **Data logger & export** — air quality tester has a 128M data storage card that can store 10w + data records, and supports data export to the computer in TXT file and analyze air quality changes in graphs.
3. **Automatic photosensitive** — BR-A air quality analyzer automatically turns off the screen according to the ambient brightness, creating a good sleeping environment, saving energy and electricity.
4. **High Accuracy** — Laser particle sensor to accurately distinguish 0.3 fine particulate matter; Electrochemical sensor to resolve 0.001 mg/m^3 of free formaldehyde molecules; Semiconductor TVOC total volatile organic compounds sensor can measure a variety of chemistry pollution such as benzene, toluene; NDIR non-spectral infrared principal CO_2 sensor to accurately detect indoor carbon dioxide concentration.
5. **Air quality alarm** — Desktop air quality detector with touch button, automatic detection at start-up, and drawing a 24-hour air quality data change curve; Comprehensive assessment of ambient air quality, air quality alarms base on US standards, keep track of the air quality around you at all times and places to alert you to allergies, asthma, sleep and other health problems

6. **Inspection of air equipment purification efficiency** — BR-A air quality analyzer can check the air quality to evaluate the purification efficiency of the filter of your purifier and ventilator and to remind you to replace the filter element.





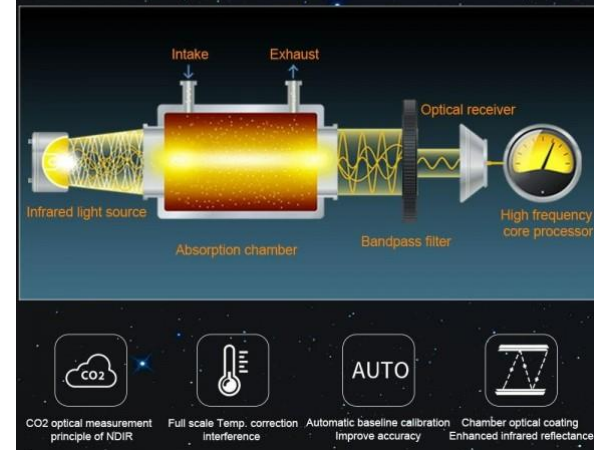
Product specifications

- **PM1.0, PM2.5 and PM10** using light scattering measurement method
 - Measuring range: 0 to 999 $\mu\text{g}/\text{m}^3$
 - Resolution: 1 $\mu\text{g}/\text{m}^3$
 - Accuracy: $\pm 15\%$ of reading or $\pm 20\mu\text{g}/\text{m}^3$
- **Formaldehyde (HCHO)** using electrochemical sensor measurement method
 - Measuring range: 0 to 1.000 mg/m^3
 - Resolution: 0.001 mg/m^3
 - Accuracy: $\pm 20\%$ of reading or $\pm 0.03\text{mg}/\text{m}^3$
- **Carbon Dioxide (CO2)** using NDIR measuring method
 - Measuring range: 400 to 5000ppm
 - Resolution: 1ppm
 - Accuracy: $\pm 15\%$ of reading or $\pm 45\text{ppm}$
- **TVOC** using semiconductor sensor test
 - Measuring range: 0 to 9.999 mg/m^3
 - Resolution: 0.001 mg/m^3
 - Accuracy: $\pm 20\%$ of reading or $\pm 0.3\text{mg}/\text{m}^3$
- Built-in Rechargeable Battery
- Power adapter:
- Input voltage: AC220V, 50/60Hz, 0.45A
- Rated output voltage: DC5 V
- Rated output current: 500mA
- Dimensions: 110 x 97 x 57mm
- Weight: 262g

Environment for use

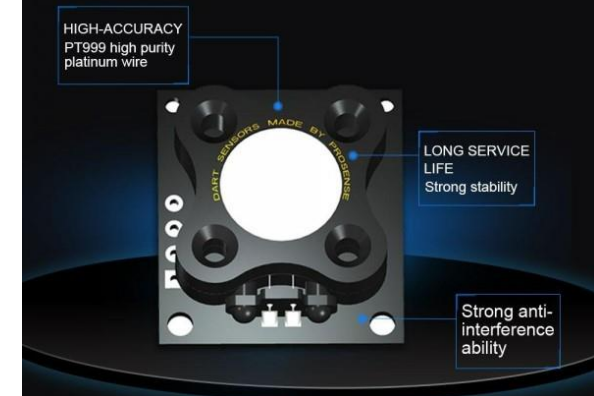
- Temperature range: 0 to 50 °C
- Humidity range: 0 to 90%RH
- Pressure: 1 standard pressure

NDIR non-dispersive infrared CO2 sensor



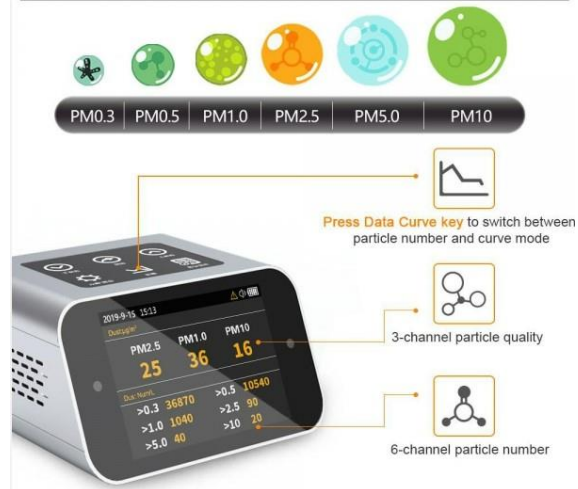
Dual platinum catalytic electrode technology

 Electrochemical formaldehyde sensor





6-channel particle number: PM0.3, PM0.5, PM1.0, PM2.5, PM5.0, PM10
 3-channel particle quality: PM1.0, PM2.5, PM10



TVOC sensor

Capturing subtle organic compound concentration changes

