



BRAMC BR-SMART-128SE 5-in-1 Air Quality Monitor PM2.5 / PM10 / Formaldehyde / CO2 / TVOCs



SKU: BRSMART128SE
Manufacture warranty period: 12 months
Country of Origin: China

Product overview:

BR-SMART-128s portable handheld 5-in-1 air quality monitor is a real-time air quality monitoring instrument used to detect PM2.5, PM10, carbon dioxide (CO₂), formaldehyde (HCHO) concentration and TVOCs in the indoor and outdoor environment. This product uses high-precision sensor chip and operation, will convert PM2.5, PM10, CO₂, formaldehyde and TVOCs concentration in the air into visual data, to monitor the air quality, provide effective protection for family health.

Scope of application:

Any indoor or outdoor environment, such as inside the house, office environment, vehicles or outdoor shelter.





Product specifications:

- Display mode: 2.4" TFT colour screen
- **PM2.5 and PM10 measurement index:**
 - Measurement method: Light Scattering
 - 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 $\pm 20\text{g}/\text{m}^3$
- **Carbon Dioxide (CO2) measurement index:**
 - Measurement method: NDIR
 - Measuring range: 400 to 5000ppm
 - Resolution: 1ppm
 - Accuracy: $\pm 15\%$ of reading or $\pm 45\text{ppm}$
- **Formaldehyde (HCHO) measurement technology index:**
 - Measurement method: Electrochemical Sensor
 - Measuring range: 0 to 1.000 mg/m^3
 - Resolution: 0.001 mg/m^3
 - Accuracy: $\pm 20\%$ of reading or $\pm 0.03\text{mg}/\text{m}^3$
- **TVOCs measurement technology index:**
 - Measurement method: Semiconductor Sensor
 - Measuring range: 0 to 9.999 mg/m^3
 - Resolution: 0.001 mg/m^3
 - Accuracy: $\pm 20\%$ of reading or $\pm 0.3\text{mg}/\text{m}^3$
- Battery power indicator
- Storage: 10,000 records
- Data record interval at every 1 minute
- Data record measure duration:
 - Continuous Mode
 - 10 mins mode
 - 15 mins mode
 - 20 mins mode

- Built-in Rechargeable Battery (2200AH)
- Power adapter:
 - Input voltage: AC220V, 50/60Hz, 0.45A
 - Rated output voltage: DC5 V
 - Rated output current: 500mA

Environment for use:

- Temperature range: 0 to 50 $^{\circ}\text{C}$
- Humidity range: 0 to 90%RH
- Pressure: 1 standard pressure

Product Dimension:

- 140 x 65 x 40mm
- Weight: 220g

Package included:

- Air quality monitoring unit
- 1x 128MB Micro SD Card
- Data/Charging cable
- User Guide

Product Dimension:

- 190 x 110 x 80mm
- Weight: 0.4 KG



Data in Excel format.

A	B	C	D	E
Date & Time	PM2.5 ($\mu\text{g}/\text{m}^3$)	CO2 (ppm)	Formaldehyde (mg/m3)	VOCs (mg/m3)
18/10/2018 04:13 PM	11	0	0	0
18/10/2018 04:14 PM	10	0	0	0
18/10/2018 04:15 PM	10	1315	0	1.546
18/10/2018 04:16 PM	11	1250	0	1.424
18/10/2018 04:17 PM	11	1131	0	1.298
18/10/2018 04:18 PM	11	1110	0	1.277



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

PM0.3 PM0.5 PM1.0 PM2.5 PM5.0 PM10

3-channel particle quality

6-channel particle number

Press Data Curve key to switch between particle number and curve mode

TVOC semiconductor sensor

Accurate measurement of various volatile organic compounds

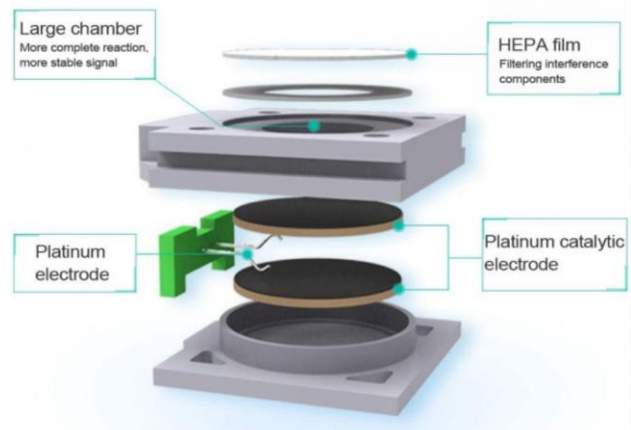
Benzene Toluene Xylene

Aldehydes Ammonia Alkanes

Aromatic hydrocarbons Nitrogen oxides Hydrogen sulfide

Dual platinum catalytic electrode technology

Electrochemical formaldehyde sensor



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Decoration hazard alarm ((🔔))

Hazard alarm do not guess, icon + frequency conversion buzzer hazard rating

Alarm threshold	HCHO mg/m ³	CO ₂ ppm	TVOC mg/m ³	PM2.5 µg/m ³
livable	<0.10	<1000	<0.60	<35
Window ventilation	0.10 < data < 0.30	1000 < data < 2000	0.60 < data < 1.00	35 < data < 150
Should not stay	>0.30	>2000	>1.00	>150
Leave soon				