BLATN BR-K
Intelligent Fresh Air Controller PM2.5 PM10 CO2 TVOC

Model: BRKPTC2WH
Manufacture warranty: 12 months

Product overview

BR-K series intelligent Internet fresh air controller, is a collection of air quality monitoring, fresh air purifier control, mobile WeChat monitoring, WEB system monitoring.

The controller can measure pollutants such as PM2.5, PM10, TVOC, CO_2, temperature, humidity, and collect outdoor air quality information by networking; can directly control fresh air purifier device, and perfect combination of air quality monitor and control.

The controller can transfer the air quality data to the server through RS485, WI-FI.

User may use WeChat or webpage interface to monitor and control HVAC equipment, in order to establish project monitoring, HVAC equipment control and intelligent home automation.

Product Features

- Small size, high integrated functions, standard 86*86mm size
- Can monitor a wide variety of data, including PM2.5, PM10, TVOC, CO2, Temperature and Humidity
- Power source 110-240VAC
- Support multiple communication protocol:
  - RS485 (For model **BR-K-PTC2R**)
  - RS485, WIFI (For model **BR-K-PTC2W**)
- Support communication protocol MODBUS
- BR-K series product can be connected to HVAC equipment easily
- Support mobile app, principal computer, web page interface monitoring and controlling.
- Can provide outdoor air quality information when connected to the Internet.
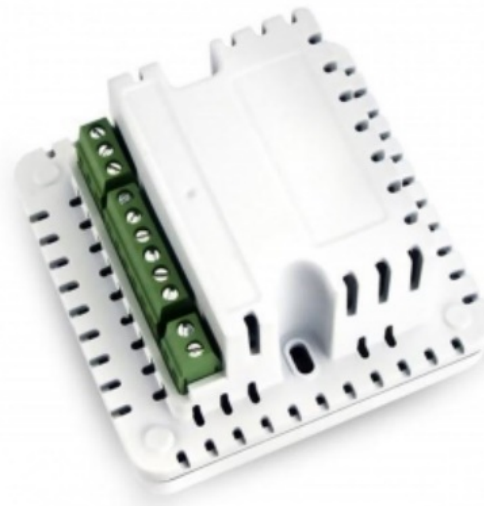
Product Specifications:

- Display mode: 2.4" TFT colour screen
- **PM2.5 and PM10** using laser scattering measurement method
  - Measuring Size: 0.3 to 10um
  - Measuring Range: 0 to 500µg /m³
  - Counting Efficiency: 50%@0.3um, 98%@≥0.5um
  - Response Time: ≤10 sec
- **TVOC** using semiconductor sensor method
  - Measuring range: 0 to 3.00µg /m³
  - Response Time: <5 sec
  - Warmup Time: 15 mins
- **Carbon Dioxide (CO2)** using NDIR measurement method
  - Measuring range: 400 ~ 2000ppm
  - Resolution: 1ppm
  - Accuracy: 22℃ (72℉) ±45ppm ±3%
  - Refresh Rate: 2 secs
  - Response Time: < 2 min
  - Warmup Time: < 2min (Operation), 10min (most accurate)
- **Temperature**
  - Range: -40 to 125℃
  - Resolution: 1℃
  - Accuracy: ±1℃
  - Response Time: 5 secs
- **Humidity**
  - Range: 0 to 100%RH
  - Resolution: 1%RH
  - Accuracy: ±2%RH
  - Response Time: 8 secs

- Power: 5W
- Input voltage: AC220V, 50/60Hz
- Power source 110-240VAC
- Cable Entry: RS485 Screw Terminal 8-pins Block
- Housing Material: ABS
- Dimensions: 86 x 86 x 50mm
- Weight: 200g

Environment for use

- Temperature range: 0 to 50 ℃
- Humidity range: 0 to 80%RH
- Pressure: 1 standard pressure
- Storage Temperature: -10 to 50 ℃

❻High-precision sensor, ❸national patent technology

Independent sensing data acquisition, more accurate

CO2 Sensor
Photosensor
Gas collection
TVOC Sensor
PM2.5 Sensor
Temp & Humi sensor

SMART FAN CONTROL UNIT (BR-K)	L	AC:220V Power Source
	N	
	COM	COMMON POINT
	V2	V2 CONTROL POINT
	V1	V1 CONTROL POINT
	H	HIGH FAN SPEED CONTROL POINT
	M	MID FAN SPEED CONTROL POINT
	L	LOW FAN SPEED CONTROL POINT
	GND	GND
	B	SB-
	A	SA+

RS485 Modbus Communication