



Indoor



Outdoor

## Air Quality Monitoring, Real-Time Dust Monitoring, Pollution Monitoring Sensor

### Overview

The **BS300-02 Dust Sensor** uses advanced laser scattering technology to accurately detect and measure dust particle concentration in the air. It is capable of identifying particles as small as 1.0  $\mu\text{m}$ , ensuring reliable monitoring performance with excellent consistency and long-term stability.

Designed for a wide range of applications, the BS300-02 is available in both indoor and outdoor models to suit different environmental conditions and installation requirements. Its robust performance makes it suitable for continuous air quality and dust monitoring applications.

### Features

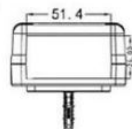
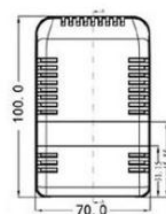
- ✓ High Sensitivity
- ✓ Fast response
- ✓ Low power consumption
- ✓ Excellent stability
- ✓ Long service life

### Applications

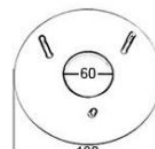
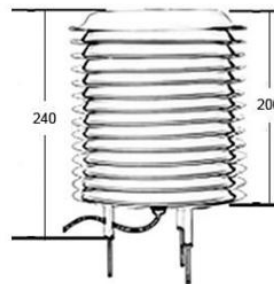
- ✓ Air quality monitoring
- ✓ Smart home
- ✓ Warehousing
- ✓ Public place
- ✓ Workshop
- ✓ Clear room

### Dimensions

Unit:mm



Indoor(Wall-mounted installation)



Outdoor

## Technical Specifications

Item	Specifications
Sampling Object	PM1.0, PM2.5, PM10 Concentration
Range	0 ~ 1000µg/m <sup>3</sup>
Accuracy	±3%FS@25°C
Warm Up Time	3min
Response Time	<90s
Temperature Drift	≤0.2%FS/°C
Stability	<±2%FS
Repeatability	<±1%FS
Output	4 ~ 20mA, 0 ~ 5V, 0 ~ 10V, RS-485
Operating Voltage	5VDC, 12 ~ 24VDC
Power Consumption	<50mA@24V(4 ~ 20mA)
Operating Temperature	-20°C ~ 50°C@15 ~ 80%RH
Storage	-40 ~ 60°C@20% ~ 90%RH
Shell Material	ABS

## Parameter Selection Table

Remark	Series	Type	Measuring Object	Indoor /Outdoor	Supply	Output	Cable Length	
BS								
	300							
		02						
			A					PM1.0
			B					PM2.5
			C					PM10
			D					PM2.5&PM10
			E①					PM1.0&PM2.5&PM10
				A				Indoor
				B				Outdoor (with Radiation Shield)
					A			5V
					B			12 ~ 24V
					X			Other
						A		4 ~ 20mA
						B		0 ~ 5V
						C		0 ~ 10V
						D		RS-485
						X		Other
							2000	Units: mm (typ)
							3000	Units: mm
							...	Units: mm

①The 3-parameter measurement option is available only with the RS-485 output version.

**Example:** RK300-02BABA2000 PM2.5, Indoor, 12 ~ 24V, Output: 4 ~ 20mA, Cable Length: 2m.

For comprehensive details, visit: [www.buraq.com/BS300-02](http://www.buraq.com/BS300-02)



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