RK300-02 Dust Concentration Sensor

www.rikasensor.com.cn

RK300-02 Dust Sensor using laser scattering principle, detecting the existence of dust particle concentration in the air, the minimum can detect 1.0um particles, has a good consistency and stability.According to different usage environment ,there are indoor type and outdoor type to select.

FEATURES

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

Indoor

Outdoor

APPLICATIONS

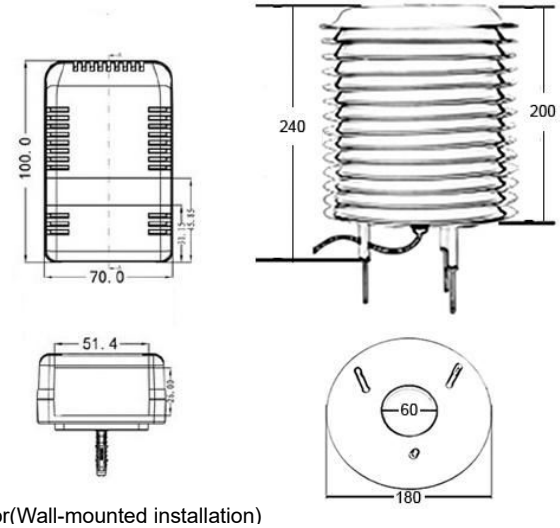
- Air quality monitoring
- Smart home
- Warehousing
- Public place
- Workshop
- Clear room

TECHNICAL SPECIFICATION

Item	Technical Specification
Sampling object	PM1.0,PM2.5,PM10 Concentration
Range	0-1000ug/m^3
Accuracy	±3%FS@25℃
Supply	5VDC,12-24VDC
Output	4-20mA,0-5V,0-10V,RS485
Power Consumption	<50mA@24V(4-20mA)
Warm Up Time	3min
Response Time	<90s
Temperature Drift	≤0.2%FS/℃
Stability	<±2%FS
Repeatability	<±1%FS
Operating Temperature	-20℃-+50℃@15-80%RH
Storage	-40-60℃@20%-90%RH
Shell material	ABS

DIMENSION

Unit:mm



Indoor(Wall-mounted installation)

Outdoor

PARAMETER SELECTION TABLE

Remark	Series	Type	Measuring object	Indoor /Outdoor	Supply	Output	Cable Length	
RK								
	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		RS485
						X		Other
							2000	Units:mm（typ）
							3000	Units:mm
							...	Units:mm

①Measure 3 parameters is only RS485 output.

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

CE Complies with applicable CE directives.
Specifications subject to change without notice. Version 3.0

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