

SM2171B**RS485 interface PM2.5, PM10 dust sensor****User Manual**

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SM2171B using the standard RS485 bus MODBUS-RTU protocol, easy access to PLC, DCS and other instruments or systems for monitoring PM2.5、PM10 state quantities. The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability, can be customized RS232, RS485, CAN, 4-20mA, DC0~5V/10V, ZIGBEE, Lora, WIFI, GPRS and other output methods.

Technical Parameters

Technical parameter	Parameter value
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Brand	SONBEST
PM2.5 range	0~999ug/m3
PM2.5 accuracy	±15% or ±10ug/m3 max @25°C
PM10 range	0~999ug/m3
PM10 accuracy	±15% or ±35ug/m3 max @25°C
Communication Interface	RS485
Default baud rate	9600 8 n 1
Power	DC9~24V 1A
Running temperature	-40~80°C
Working humidity	5%RH~90%RH

Wiring instructions

Any incorrect wiring can cause irreversible damage to the product. Please carefully wire the cable as follows in the case of power failure, and then connect the cable to confirm the correctness and then use it again.

ID	Core color	Identification	Note
1	Red	V+	Power +
2	Green	V-	Power -
3	Yellow	A+	RS485 A+
4	Blue	B-	RS485 B-

In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

Communication Protocol

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