



SONBEST SM2171B RS485 Interface PM2.5 PM10 Dust Sensor User Manual

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SONBEST SM2171B RS485 Interface PM2.5 PM10 Dust Sensor



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.

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Technical Parameters

Technical parameter	Parameter value
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 Disclaimer

This document provides all information about the product, does not grant any license to intellectual property, does not express or imply, and prohibits any other means of granting any intellectual property rights, such as the statement of sales terms and conditions of this product, other issues. No liability is assumed. Furthermore, our company makes no warranties, express or implied, regarding the sale and use of this product, including the suitability for the specific use of the product, the marketability or the infringement liability for any patent, copyright or other intellectual property rights, etc. Product specifications and product descriptions may be modified at any time without notice.

Contact Us

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Documents / Resources

 A photograph of the SONBEST SM2171B dust sensor. It is a small, rectangular, beige-colored device with two white cables (one labeled 'VCC' and one labeled 'GND') extending from the bottom. The top of the device has a small circular opening for the sensor. The background of the photo is white.	SONBEST SM2171B RS485 Interface PM2.5 PM10 Dust Sensor [pdf] User Manual SM2171B, RS485 Interface PM2.5 PM10 Dust Sensor
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References

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