



## SONBUS SM6399B Sensor User Manual

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# SONBUS

**SONBUS SM6399B Sensor**



## **Instruction**

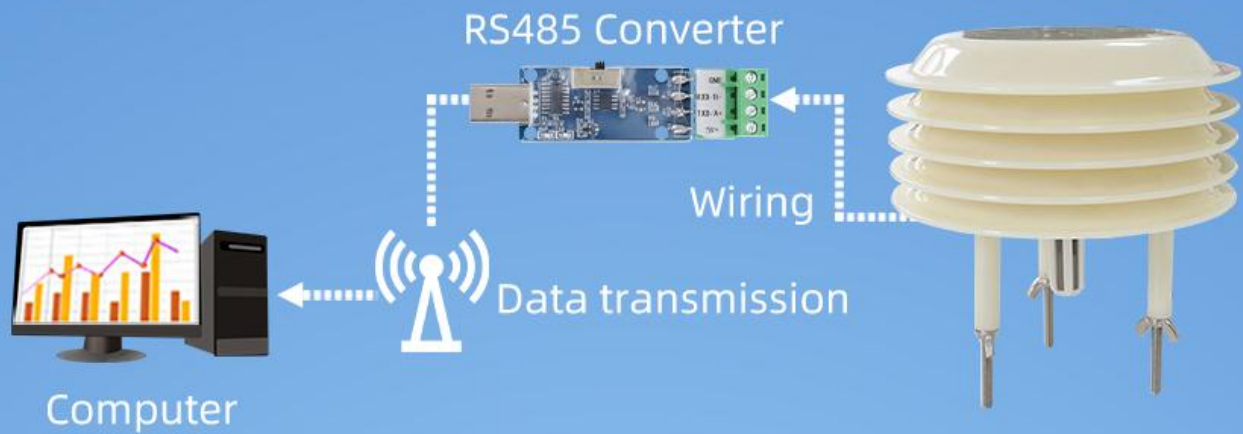
SM6399B using the standard RS485 bus MODBUS-RTU protocol, easy access to PLC DCS, and other instruments or systems for monitoring Illuminance carbon dioxide, atmospheric pressure state quantities. The internal use of high-precision sensing core and related devices to ensure high reliability and excellent 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 |
|-------------------------------|-----------------|
| Brand                         | SONBEST         |
| Illuminance measuring range   | 0~65535Lux      |
| Illuminance allow deviation   | ±7%             |
| Repeatability test            | ±5%             |
| Illuminance detection chip    | Import digital  |
| Wavelength range              | 380nm~730nm     |
| CO2 range                     | 0~5000ppm       |
| CO2 accuracy                  | ±100ppm         |
| Atmospheric pressure range    | 30~110kpa       |
| Atmospheric pressure accuracy | ±0.5%           |
| 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      |

## Product Size

## ■ RS485 Wiring



### RS485 Wiring

|                                       |    |          |
|---------------------------------------|----|----------|
| <span style="color: red;">■</span>    | RD | PWR+     |
| <span style="color: green;">■</span>  | GN | PWR-     |
| <span style="color: yellow;">■</span> | YE | RS485 A+ |
| <span style="color: blue;">■</span>   | BU | RS485 B- |

### 4~20mA Wiring

|                                      |    |       |
|--------------------------------------|----|-------|
| <span style="color: red;">■</span>   | RD | PWR+  |
| <span style="color: black;">■</span> | BK | PWR-  |
| <span style="color: blue;">■</span>  | BU | I OUT |

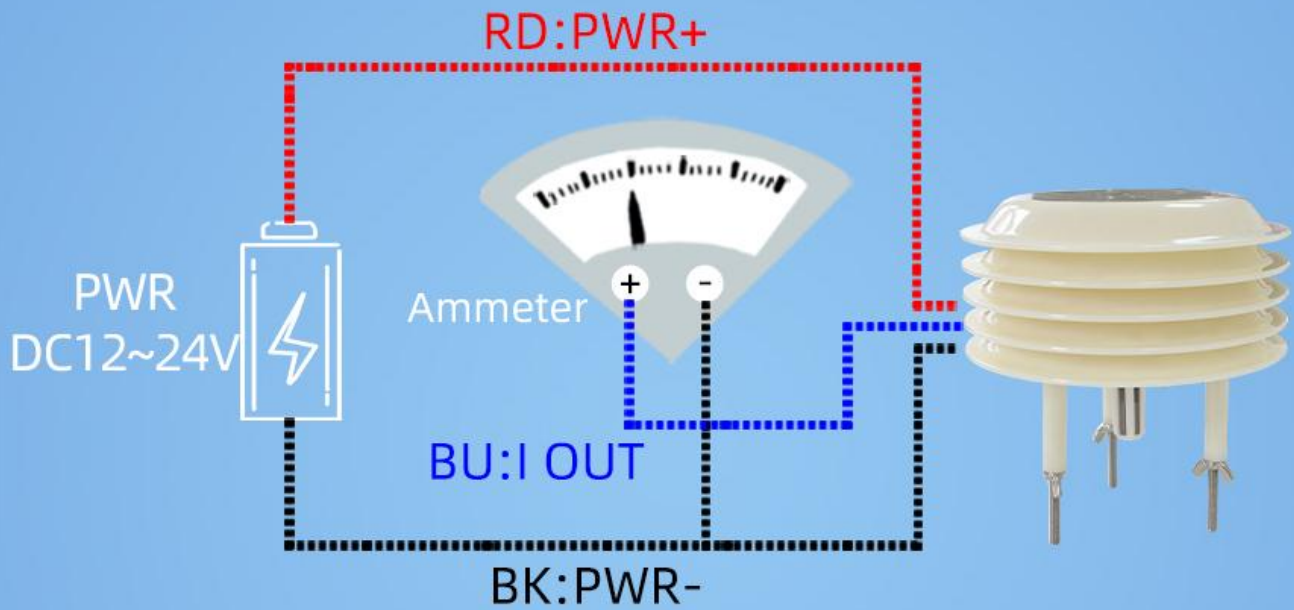
### 0~5V/10V Wiring

|                                      |    |       |
|--------------------------------------|----|-------|
| <span style="color: red;">■</span>   | RD | PWR+  |
| <span style="color: black;">■</span> | BK | PWR-  |
| <span style="color: blue;">■</span>  | BU | V OUT |

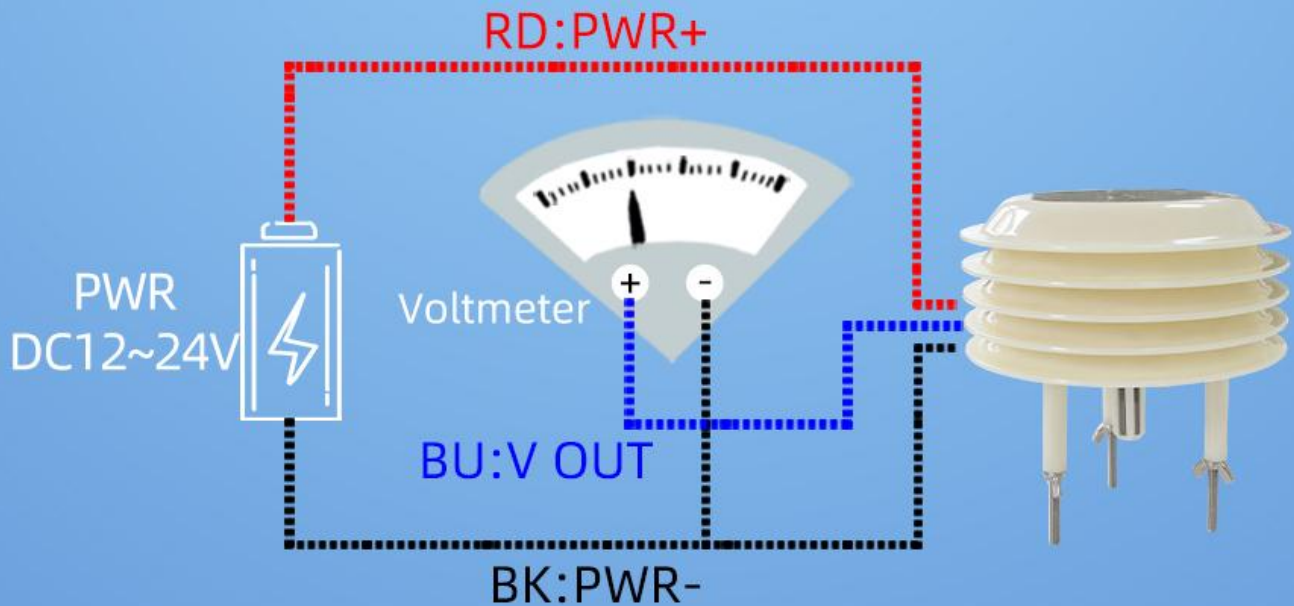
※Note: When wiring, connect the positive and negative poles of the power supply first, then connect the signal wire

## Application Solution

## ■ 4~20mA Wiring



## ■ 0~5V/10V Wiring



How to use?



## 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

- **Company:** Shanghai Sonbest Industrial Co., Ltd
- **Address:** Building 8, No.215 Northeast Road, Baoshan District, Shanghai, China Web: <http://www.sonbest.com>
- **Web:** <http://www.sonbus.com>
- **SKYPE:** soobuu
- **Email:** [sale@sonbest.com](mailto:sale@sonbest.com)
- **Tel:** 86-021-51083595 / 66862055 / 66862075 / 66861077

## Documents / Resources

|                                                                                     |                                                                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  | <p><b><a href="#">SONBUS SM6399B Sensor</a></b> [pdf] User Manual<br/>SM6399B, Sensor, SM6399B Sensor</p> |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|

## References

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- [!\[\]\(3278d6283d12f18012b5aa7d40747611\_img.jpg\) Home-SONBEST -SONBUS.COM| THE SENSOR COMPANY](#)
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