

RK300-09 SO₂ Concentration Sensor

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RK300-09 SO₂ Concentration sensor adopts professional test SO₂ concentration sensor probe as the core detection device; it has the characteristics of wide measurement range, high accuracy, good linearity, good versatility, convenient use, easy installation, long transmission distance, and moderate price.

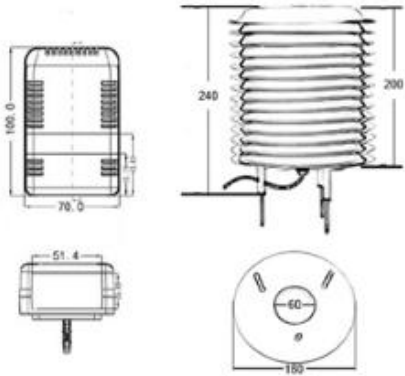
APPLICATION

- Medical equipment
- HVAC and air conditioning
- Industrial control
- Environmental monitoring

SPECIFICATIONS

Item	Specification
Measuring range	0-20ppm
Principle	Electrochemistry
Supply	Mark on the label
Resolution	0.1ppm
Accuracy	±2%@25℃
Response time	≤15s
Output	RS485
Power consumption	≤0.2W
Operating temperature	-20-+50℃
Relative humidity	15-80%RH (No condensation)
Shell Material	ABS

DIMENSION



ELECTRICAL CONNECTIONS

Connector（cable）	RS485	Voltage
Red	V+	V+
Black	V-	V-
Yellow	485A	Signal+
Green	485B	

Note: This product has been tested and complies with European CE requirements for EMC directive.

Communication Protocol（MODBUS）

Transmission mode: MODBUS-RTU,Baud rate: 9600bps,Data bits:8,Stop bit:1,Check bit:no

Slave address:the factory default is 01H (set according to the need,00H to EFH)

- The 03H Function Code Example: Read The SO₂ concentration

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Host Scan Order(Slave addr:0x01):

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01 03 00 00 00 01 840A

Slave Response:

01 03 02 00 3A 3857

SO₂ :(003A)H=(58)D,58/10=5.8ppm

- The 06H Function Code Example: Modify the slave address(write address must be FFH ,fixed command,ensure that no other devices on the bus)

Host Scan Order (Changed to 05H):


01 06 00 30 00 02 0804

Slave Response:

01 06 00 30 00 02 0804

Note:

- 1. All underlined is fixed bit;
- 2. The last two bytes is CRC check command

 Complies with applicable CE directives.
Manual subject to change without notice. Version 1.0
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