

## RK300-19 CH4 Sensor

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RK300-19 CH4 sensor adopts the catalytic combustion principle and has a built-in high-sensitivity probe. It has the characteristics of high accuracy, good linearity, and easy installation.

It is widely used in industrial plant, traffic tunnel, coal mine shaft, dig working face, dye stuff plant, warehouse storage, chemical plant, etc

### FEATURES

- High sensitivity
- Fast response
- High precision, wide measuring range
- Effective resistance to water vapor
- Excellent stability
- Easy installation

### SPECIFICATIONS

Item	Specification
Measuring range	0-100%
Principle	Electrochemistry
Supply	Mark on the label
Resolution	0.1ppm
Accuracy	±3%@25°C
Response time	≤15s
Output	RS485
Power consumption	≤0.2W
Operating temperature	-10~+50°C
Relative humidity	0-95%RH (No condensation)
Shell Material	ABS

### DIMENSION



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## ELECTRICAL CONNECTIONS

Connector (cable)	RS485
Red	V+
Blue	V-
Yellow	485A
Green	485B

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

### Note:

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

## Communication Protocol (MODBUS)

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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 FCH)

- The 03H Function Code Example: Read The CH4 Sensor

Host Scan Order(Slave addr:0x01):

01 03 00 06 00 01 640B

Slave Response:

01 03 02 00 10 7835

CH4:(0010)H=(16)D/10=1.6 ppm

- The 06H Function Code Example: Modify the slave address(write address must be 01H ,fixed command,ensure that no other devices on the bus)

Host Scan Order (Changed to 02H):

01 06 01 00 00 02 09 F7

Slave Response:

01 06 01 00 00 02 09 F7

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Complies with applicable CE directives.

Manual subject to change without notice. Version 1.0

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