NTP
semiconductor

Outdoor CO2 Carbon Dioxide Sensor

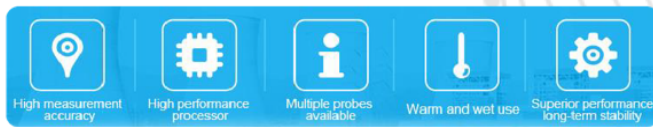High measurement accuracy | High performance processor | Multiple probes available | Warm and wet use | Superior performance long-term stability

ES101-CO2-5000

Wide CO2 Measuring Range

- 5000ppm with +/- 40ppm Accuracy in full-scale
- Widely applied at Heavy Air-Pollution Area

Std. Modbus RTU RS-485, Wide Power Rang

- 2-Wire RS-485
- 10~30Vdc Power Input

High Grade Enclosure Protection

- IP54 Grade Protection, ABS Plastic, UL94V0 Anti-fire
- Water-Proof, Anti-Dust with Out-Door Shelter

Optional IoT Router and Cloud Platform

- Support Modbus to connect optional NBIoT Gateway WR222-WLAN-NB for one or many sensors
- Real-time online monitoring, analysis, reporting

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Features & Benefits

CO2 Measurement Range	0-5000ppm
Digital Signal output	RS485 2-Wire output (Modbus protocol)
Working Voltage	10-30VDC
Power consumption	< 0.4w
CO2 Accuracy	±40ppm +3%FS (25°C)
Working Environment	-10~+50°C, 0-80%RH
Stability	<2% Signal / Year
Response time	≤90s with 90% step change
Dimension & Installation	85 x110 x 44mm; Wall Mounting

Register Address	PLC or Configuration Address	Content	Description
0002 H	40003	CO concentration value	Range: 0~2000ppm Upload real data
07D0 H	42001	Slave ID	1 ~ 254 (Factory Default 1)
07D1 H	42002	Baud Rate	0=2400 1=4800 2=9600(Default)

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