



JAYESH TRADERS ISO 9001-2015

AIRATOM"

MFG. OF GAS & AIR MONITORING DEVICES

Unit no 803, 8th floor Aggarwal millennium tower -1, Netaji Subhash place pitampura-34
 Block no C12, building no 479 yamuna vihar delhi-53

GST no. - 07ANFPA0867R1ZN, contact no.- 9811258382 E-mail- contact@airekart.com, www.airatom.in

CO2 Sensor 4-20ma output

Potential applications:

- COLD STORAGE
- GRAIN STORAGE
- GREEN HOUSE
- AGRICULTURE
- MUSHROOM CULTIVATION

 Available models in RS485/Analog output with and without temperature and humidity
 CO2 range available 0-5000 / 0-10,000



Product Introduction

Product summary

- 1 Real-time detect CO₂levelof indoor environment
- 2 NDIR infrared CO₂sensorwith Self-Calibration and up to 3-4 years lifetime
- 3 Humidity and temperature detection optional
- 4 Combined temperature and humidity sensor provide the highest accuracy in full range
- Wall mounting with the external sensor probe with the higher accuracy of measurements
- 6 Providing one or three 0~10VDC or 4~20mAor 0~5VDC analog outputs

Main technology indexes

DC power supply (default)	10 ~ 30V DC	
Maximum power consumption	Current output	1.2W
	Voltage output	1.2W
Resolution	0.1ug / m3	
Transmitter circuit operating temperature	-20 °C ~ + 60 °C, 0 % RH ~ 80% RH	
Measuring range	CO2 Available Ranges Display	0 ~10,000 ppm 0 ~20,000 ppm *Optional - LCD Display Included with extra cost
Response speed	≤ 9 0S	
Warm up time	≤2min	
output signal	Current output	4 ~ 20mA
load capacity	Voltage output	Output resistance $\leq 250 \Omega$
	Current output	≤ 600 Ω

Equipment installation check

- transmitter equipment 1
- 24V / 2A power supply units 1 (optional)

Wiring

Power Connection

Wide voltage $10 \sim 30 V$ DC power input. For 0-10V output type devices can only use 24V power supply.

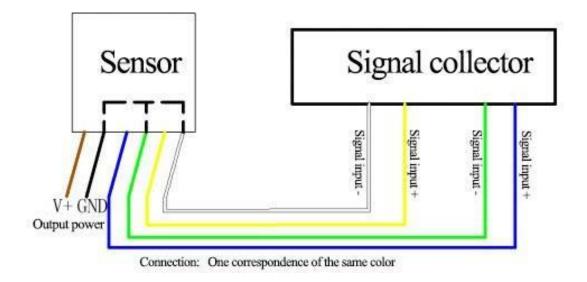
Output Interface Terminal

Device is a independent standard analog output. At the same time to adapt to the three-line system and four-wire system.

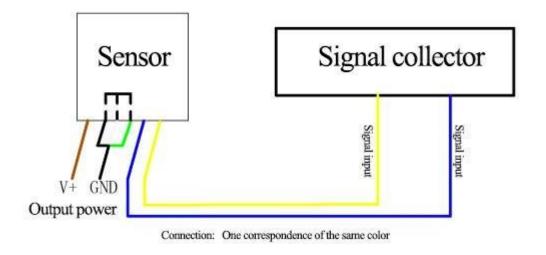
Electrical Wiring

	Line color	Description
power supply	brown	Power is positive
	black	Negative power supply
	blue	Co2 positive signal
Output	green	Co2 negative signal
	Or yellow	Co2 positive signal
	Or white	Co2 negative signal

1.2 Wiring Examples



Four - wire connection method



Three - wire connection method

Calculation Method

voltage-converts the output signal calculation

Range 0 ~ 6000 ppm , 0-10V output to an example, when the output signal of 5V, the current calculation co2 range span 6000ug / m3, expressed by the signal voltage 10V, 6000ppm / 10V = 600ug / ppm, i.e., the voltage corresponding to each change of 1V co2 change 600ppm. Measurement 5V-0V = 5V. 5V * 600ppm = 3000 ppm . The current co2 to 3000 ppm.

Symptom: No output or output error

possible reason:

- 1) PLC range calculation error corresponding to the error cause, please refer to the specifications of the first range portion.
 - 2) Wiring or not the connection sequence of errors.
 - 3) Supply voltage not (24V power supply for both type 0-10V).
- 4) the distance between the transmitter and the collector is too long, resulting in disturbance signal.
 - 5) PLC collection port damage.
 - 6) equipment damage.

Contact information

JAYESH TRADERS.

Address: Unit no 803, 8th floor Aggarwal millennium tower -1, Netaji

Subhash place pitampura

Post code: 110053

Phone: 9811258382, 9891980860

Website: www.airekart.com, www.airatom.in

Email: contact@airekart.com

*Note: product picture is only for reference , actual product may vary in physical appearance