

# Carbon Dioxide Transmitter NEW

## With Temperature and RH% Transmitting

- ◆ Real time carbon dioxide detection and transmitting
- ◆ Temperature and humidity detection and transmitting
- ◆ Provide 3xanalog linear outputs for measurements
- ◆ With or without LCD selectable
- ◆ 3-color backlit LCD for indication and alarm
- ◆ Modbus interface optional
- ◆ CE-approval

### ■ Features

- ◆ Design for real time measuring ambience carbon dioxide level and temperature +RH% with LCD selectable
- ◆ NDIR infrared CO<sub>2</sub> sensor inside with special Self Calibration. It makes CO<sub>2</sub> measurement more accurate and more reliable.
- ◆ More than 10 years lifetime of CO<sub>2</sub> sensor
- ◆ Basis type without LCD and standard type
- ◆ 3-color backlit LCD for indication and alarm
- ◆ Wall mounting with multi- dimensions of installation.
- ◆ Provide Modbus communication interface
- ◆ 24VAC/VDC power supply. A DC socket optional to be connected a power adaptor
- ◆ EU standard and CE-approval

### ■ Application

- ◆ Building ventilation systems
- ◆ Industry ventilation systems
- ◆ Airport, train station, shopping mall, office, classroom and other public places for air quality measurement and indication
- ◆ Lab., warehouse, and other places to detect CO<sub>2</sub>+Temp. +RH%



### ■ Specifications

Gas detected	Carbon Dioxide (CO <sub>2</sub> )
Sensing element	Non-Dispersive Infrared Detector (NDIR)
CO <sub>2</sub> measuring range	0~2000ppm/ 0 ~ 5,000ppm/0~10,000ppm
CO <sub>2</sub> Accuracy@25	±40ppm + 3% of reading
Stability	<2% of FS over life of sensor (15 yr typical)
Calibration	ABC Logic Self Calibration Algorithm
Response Time	<2 minutes for 90% step change
Signal update	Every 2 seconds

Temperature sensor	NTC with linear output
Temperature measuring range/ accuracy	0~50 (32~122 )/ ±0.5 (1 )@25
Humidity sensor	HS series capacitive sensor with linear output
Humidity measuring range	5 ~ 95%RH
Humidity measurement accuracy	±3%RH (40%RH~60%RH, 25 )
Temperature correction	Self compensation
Warm up time	24 hours (first time) / 5 minutes (operation)
Power supply	24VAC/VDC
Consumption	3.5 W max. ; 2.8 W avg.
Analog outputs	Up to 3 X analog outputs 0~10VAC or 4~20mA selectable in the order or by jumpers
LCD	3-color backlit LCD display CO <sub>2</sub> , Temperature and humidity Green: CO <sub>2</sub> ≤1000ppm Yellow: 1000ppm< CO <sub>2</sub> ≤1400ppm Red: CO <sub>2</sub> >1400ppm
RS485 interface (optional)	RS-485 with Modbus protocol, 19200bps rate, 15KV antistatic protection, independent base address.
Operation conditions	0~50 (32~122 ) ; 0~95%RH, non condensing
Storage conditions	-40~70 (-40~158 )
Weight	200g
Dimensions	130mm(H)×85mm(W)×36.5mm(D)
Installation	wall mounting with 65mm×65mm or 2"×4"wire box
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30
Standard	CE-Approval

## ■ Models Guide

G01-CO2-B X<sub>1</sub>X<sub>2</sub>C -Y0Z – U 02/05/10

**X<sub>1</sub>X<sub>2</sub>**: housing type

**10**- basis type without LCD, 24VAC/VDC power supply

**11**-basis type without LCD, 24VAC/VDC power supply with a DC socket

**30**-standard type with LCD, 24VAC/VDC power supply

**31**- standard type with LCD, 24VAC/VDC power supply with a DC socket

**C**: 24VAC/VDC power supply

**Y**: analog output quantity

**3**-3Xanalog outputs

**1**-1xanalog output

**0**-no analog output

**Z**: Modbus interface

**0**- no Modbus RS485 interface

**1**- With Modbus RS485 interface

**U**: the way of analog outputs

A- 4~20Ma output

V- 0~10VDC(default)/2~10VDC/0~5VDC/1~5VDC output

**02/05/10:** CO2 range

02- 0~2000ppm

05- 0~5000ppm

10- 0~10,000ppm

**Accessory:**

P/N	Name	Description
870	Power adaptor	Input: 100~240VAC, Output: DC 24V/ 240mA
921	Bracket	As a wall plate which the CO2 transmitter can be mounted on.

■ **Mounting and Dimensions**

