Carbon Dioxide Transmitter <u>NEW</u>

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 ambiance carbon dioxide level and temperature +RH%
- NDIR infrared CO₂ sensor inside with special Self Calibration. It makes CO2 measurement more accurate and more reliable.
- More than 10 years lifetime of CO₂ sensor
- Basis type without LCD and standard type

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 CO2+Temp. +RH%

with LCD selectable

- 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



Specifications

Gas detected	Carbon Dioxide (CO ₂)
Sensing element	Non-Dispersive Infrared Detector (NDIR)
CO ₂ measuring range	0~2000ppm/ 0 ~ 5,000ppm/0~10,000ppm
CO2 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 ₂ , Temperature and humidity Green: $CO_2 \le 1000$ ppm Yellow: 1000ppm< $CO_2 \le 1400$ ppm Red: $CO_2 > 1400$ ppm
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 <u>X₁X₂C -Y0Z – U 02/05/10</u>

- X₁X₂: 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
 - $\ensuremath{\textbf{31}}\xspace$ 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 ouputs

A- 4~20Ma output

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

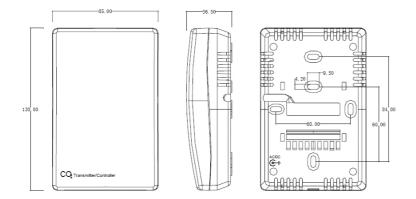
02/05/10: CO2 range

- 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



24Vac/dc	GND	AN1	AN2	AN3	B A RS-485	۹ ۱
1	2	3	4	5	6 7	7