

BCT3100-CO

Carbon Monoxide Detector And Transmitter



- Real time detect and transmit ambient carbon monoxide level
- Up to more than five years lifetime
- 1x analog output selectable for measurement carbon monoxide in linear
- Modbus RS485 interface
- The highest performance with the lowest price



BCT3100-CO series is specifically designed to detect and transmit carbon monoxide level in the enclosed or semi-enclosed car parks and to regulate the environment according to the measurement of carbon monoxide. It is designed for easy installation and minimum maintenance during operation. RS-485 communication interface is available as an option with independent address, thus it can be connected with a PC or DDC/PLC.

□ Features

- ◆ Wall mounting, real time detect CO level with measuring range of 0~100ppm/ 0~200ppm/ 0~500ppm.
- ◆ Electrochemical sensor which offer several advantages over traditional electrochemical sensors.
- ◆ With a long life, good long term stability, and high accuracy, the CO sensor is environmentally friendly without risk of electrolyte leakage.
- ◆ With simple calibration
- ◆ The special design of easy sensor's replacement makes customers replace sensor easily by themselves
- ◆ Full time CO level detection, even the slightest leak can be detected
- ◆ One analog output with the linear relationship between CO gas concentration
- ◆ Internal microprocessor control
- ◆ Special built-in Self-Zero Correction algorithm.
- ◆ Modbus RS-485 communication with 15KV antistatic protection can be connected with a PC or a PLC/DDC, also can be calibrated carbon monoxide measurement

□ Application

- ◆ Residential and commercial CO detectors and transmitters
- ◆ Ventilation control for indoor parking garages
- ◆ Recreational vehicle CO detectors
- ◆ Kitchen rooms and restaurants
- ◆ Freezing machine rooms and other places where air quality is easy to worsen

□ Specifications

CO Measurement

Gas detected	Carbon monoxide
Sensing element	Battery operable electrochemical sensor

Gas sample mode	Diffusion
Warm up time	1 hour (first time)
Response Time	Within 60 seconds
Signal Update	1s
CO Measuring Range	0~100ppm/0~200ppm/0~500ppm selectable
Accuracy	<1-ppm (at 20±5°C/ 50±20%RH)
Stability	±5% (over 900 days)

Electrical

Power Supply	18~28VAC/VDC
Consumption	1.5 W
Wiring connections	5 terminal blocks (max.)

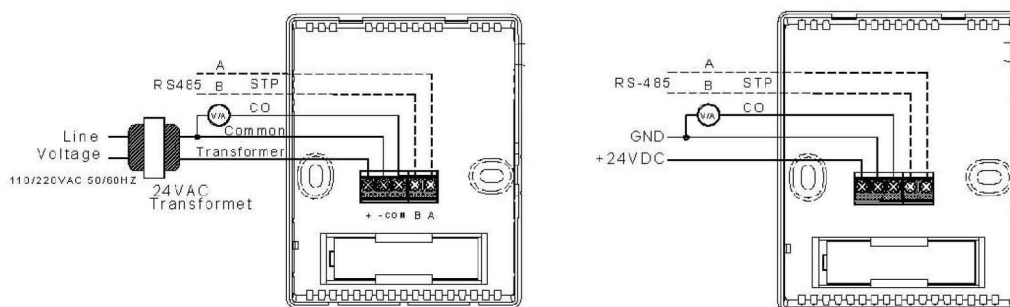
Outputs

Linear analog output	1x0~10VDC/4~20Ma selectable in order
D/A resolution	16 bit
D/A conversion accuracy	0.1ppm /0~500ppm < ±0.2%FS
Modbus RS485 Communication interface	Modbus RS485 interface 9600/14400/19200(default), 28800 bps, 38400 bps (programmable selection), 15KV antistatic protection

General Performance

Operation temperature	0~60°C(32~140°F)
Operation humidity	5~99%RH, non condensing
Storage conditions	-40~70°C(-40~158°F)
Net Weight	195g
Dimensions	100mm×80mm×28mm
Installation standard	65mm×65mm or 2"×4" junking box
Housing and IP class	PC/ABS fireproof plastic material, protection class: IP30
Compliance	EMC Directive 89/336/EEC

□ Wiring Diagrams



□ Models

ITEM	MODEL	DESCRIPTION
Carbon Monoxide Transmitter	BCT3100-CO-MA	Carbon monoxide transmitter with one 4~20mA output. Modbus RS485 communication interface

(18~38VAC/VDC power supply)	BCT3100-CO-V	Carbon monoxide transmitter with one 0~10VDC output. Modbus RS485 communication interface
	BCT3100-CO-RS	Carbon monoxide transmitter with RS485 communication interface

Note: For above items CO range can be up to 0~500ppm with default range 0~100ppm.

□ **Shipping Information**

Indiv. Ctn. Dim	115mm×95mm×45mm
Master Ctn. Qty	80
Master Ctn. Dim	44cm(L)×32cm(W)×32cm(H)
Master Ctn. Wt.	18KG

□ **Mounting**

