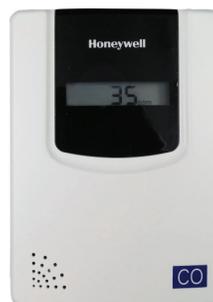


# CO SERIES GD250 CO TRANSMITTER

- 4~20 mA, / 2~10 VDC Mod-bus output
- Option for Electrochemical sensor
- LCD display option for both Space
- Various mounted types selectable
- CO range is selectable in one model
- High reliability & accuracy
- Wide sensing range
- Rapid response



## Technical Specification

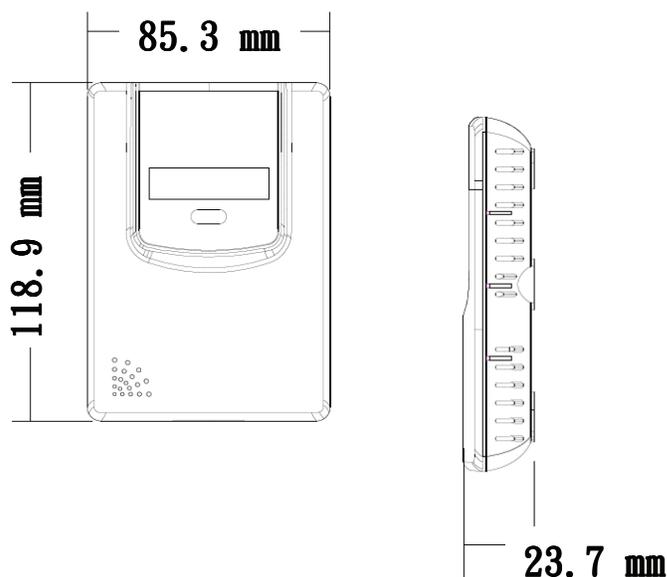
<b>CO Sensor:</b>	Electrochemical
<b>Measurement:</b>	0~ 250ppm
<b>Signal Output:</b>	4~20mA , 2~10VDC Modbus RTU
<b>Accuracy:</b>	+/-5% FS @25C. 50% RH for 0~100 ppm +/- 10% FS @25C. 50%RH for 100~ 250 ppm
<b>Coverage area:</b>	465m <sup>2</sup> (recommended)
<b>Relay contact setting</b>	50 ppm /100 ppm /150 ppm
<b>Relay output</b>	isolated N.O. & N.C.
<b>Power Supply:</b>	2A,30V up to 0.5A, 125V dc/ac. Power Supply: 24 VAC/VDC (12~36V)
<b>Current Output Load</b>	500 Ohm Max
<b>Working temperature:</b>	Room type -10°C ~ +50°C 5% ~ 95% RH without condensation
<b>Certification:</b>	 Report No.
<b>Housing Material:</b>	Plastic (ABS) Flame retarded acc. to UL94-V1
<b>Protection Standard:</b>	Room type IP30 Calibration: Factory calibrated

## APPLICATION

CO series Transmitters are designed for use with building automation, energy management, and computer monitoring systems. These sensors can be used for parking lot, tunnel and under ground places.

## Appearance and Dimension (Dimension in mm)

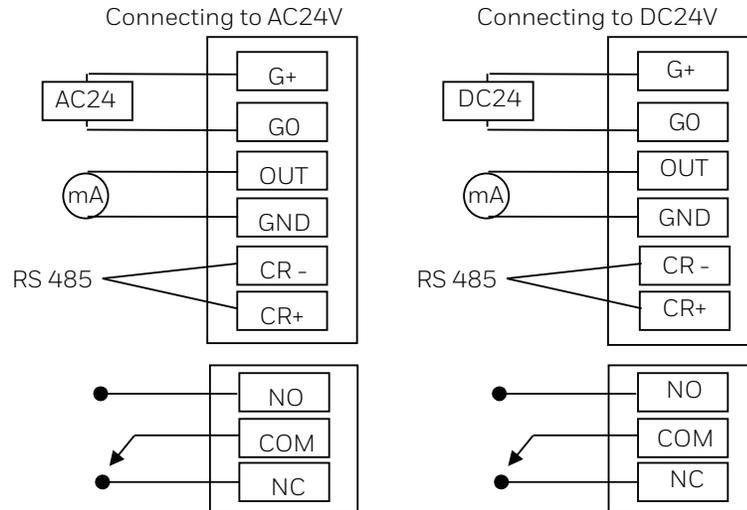
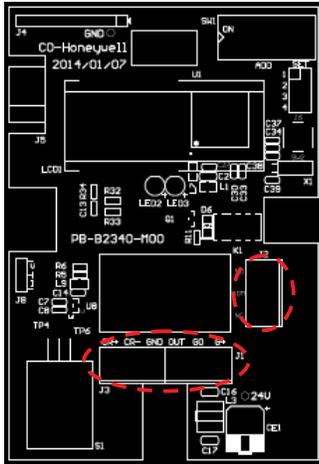
Space mount Transmitter



## Model Selection

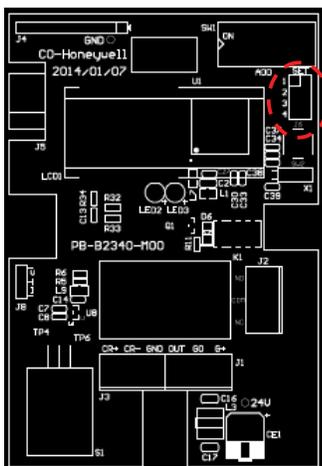
GD250W3E	CO Detector, 0~250ppm, Relay output
GD250W4E	CO Detector, 0~250ppm, 4~20mA / 2~10VDC output
GD250W4N	CO Detector, 0~250ppm, LCD, 4~20mA / 2~10VDC , Modbus, Relay output

## WIRING



1.	G+	AC/DC 12~36V
2.	G0	System GND
3.	OUT	4~2mA / 2~10V
4.	GND	Singal GND
5.	NO	Normally opened
6.	COM	Com
7.	NC	Normally closed
8.	CR -	RS485 CR (-)
9.	CR +	RS485 CR (+)

## RELAY CONTACT SETTING



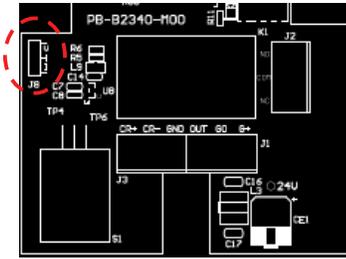
### Jumper setting

#### 1. Relay contact setting :

- set 1: pre-set at 50 ppm with hysteresis of 10ppm.
- set 2: pre-set at 1,00 ppm with hysteresis of 10ppm.
- set 3: pre-set at 1,50 ppm with hysteresis of 10ppm

Relay Output	Set 1	Set 2
Relay contact setting 50 ppm	1	1
Relay contact setting 100 ppm	1	0
Relay contact setting 150 ppm	0	1
Arbitrary density setting mode	0	0

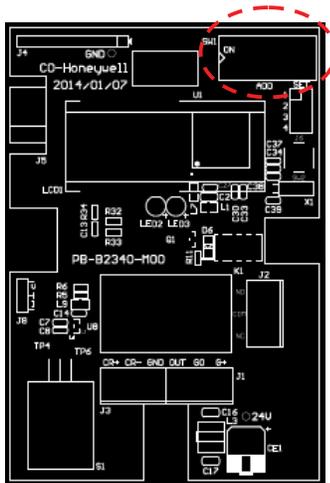
## Outputs mode



J8, J9 are used to select 4~20mA / 2~10V linear outputs mode.

Output Configurations	JP8
4~20 mA	
2~10 V	

## Device ID Selection



Device ID ( ON =1 , OFF = 0 )					
1	1000 0000		165	1010 0101	
2	0100 0000		195	1100 0011	
55	1110 1100		197	1010 0011	
100	0010 0110		200	00010011	
125	1011 1110		254	0111 1111	
127	1111 1110		255	1111 1111	

## PROTOCOL

Baud Rate = 9600 Word Length = 8 Parity = none Stop Bits = 1<sup>0</sup>

### Data Reading Type

	Device ID	Function	Address	Data Length	Error Check
CO ppm	01	03	0001	0001	XXXX

### Responding Data Type

	Device ID	Function	Data byte	CO <sub>2</sub> ppm	Error Check
CO ppm	01	06	02	0064	XXXX

#### \*\* Remark 1

XXXX is the CRC16 checksum (Check Sum) \*\* Remark 2

CO<sub>2</sub> resulting data in hex.

The resulting data is 0x0064 into decimal, ie 100 ppm.

## To Open the Wall Mounted Housing

**Figure 1..** Closed housing seen from above  
The housing is opened by pressing a screw driver into the lock opening slot.



**Figure 2..** By pressing a flat screw-driver  
Into the opening slot,the two locking hook  
would be released.



### INSTALLATION GUIDE FOR DUCT MOUNT SENSOR OR TRANSMITTER :

- Drilling a mounting hole with diameter 13mm on the duct near measuring point. Insert the probe pipe into duct.
- Unscrew & open the front cover of the product.
- Use enclosed screws to install the wiring box on the duct.
- Lead wire from DDC or PLC panel through opening by using a properly sized screw driver to connect each wire to the terminals of the transducer module according to field wiring diagram.
- Put front cover back and tighten front cover by screw.
- Use a properly sized screw driver to connect the lead wires to the terminals.

### INSTALLATION GUIDE FOR WALL MOUNT SENSOR OR TRANSMITTER :

- Remove the front cover and place the back panel to the desired location.
- Attaching the enclosed screws to the back panel.
- Place the front cover to the back panel.
- Keep the sensor or transmitter away direct sun light, heat source and cold source.
- The recommended location of wall mount sensor or transmitter is 1.5M above the ground.

#### For more information,

<https://honeywellbuildings.in>

Call: 1-800-103-0339

Email: [HBT-Indiabuildings@honeywell.com](mailto:HBT-Indiabuildings@honeywell.com)

#### Honeywell HBT India Buildings

Unitech Trade Center, 5th Floor, Sector-43,  
Block C, Sushant Lok Phase - I,  
Gurgaon - 122 002

[www.honeywell.com](http://www.honeywell.com)

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**CO SERIES  
GD250  
CO TRANSMITTER**

**Honeywell**