

Carbon Monoxide (CO) Transmitter

Model : COD-200-HC / COD-200L-HC



COD-200L-HC (with LCD Display)



COD-200-HC

General

COD-200-HC and COD-200L-HC are the CO Transmitter which detect CO gas of the air and send signal to Host for the protect people at parking lots, Industrial working places and Buildings. COD-200 is upgraded from COD-100 to give wider reading range and better accuracy and stability.

Features

- Semiconductor used to measure CO levels.
- Fast Response.
- 3wired / 4 wired model or with/without LCD display model is selectable
- Output mode : 4-20mA / 2-10V
- Exclusive Compensation Algorithm is adapted.

COD-200-HC CO Detector

Specifications

General Performance

Operating Temperature range

0 ~ 50°C

Operating Humidity range

10 ~ 90% RH (Non-condensing)

Storage Temperature

-30°C ~60°C

Storage Humidity

10~95%RH (Non-condensing)

CO Measurement

Sensing Method

Semiconductor Type

Measurement Range

0 to 500 ppm (0 to 1,000 ppm is option)

Accuracy

At 20°C, 50%RH after 4days since power-on.

0~100ppm : ±10% FS

100~500/1,000 : ±15% FS

Response Time

< 1 minutes

Sampling Interval

every 30 seconds.

Electrical Data

Power Input & Tolerance

24VDC (3-Wired) or 24VAC/24VDC (4-Wired)

17.5~30 V_{AC} / V_{DC}

Output

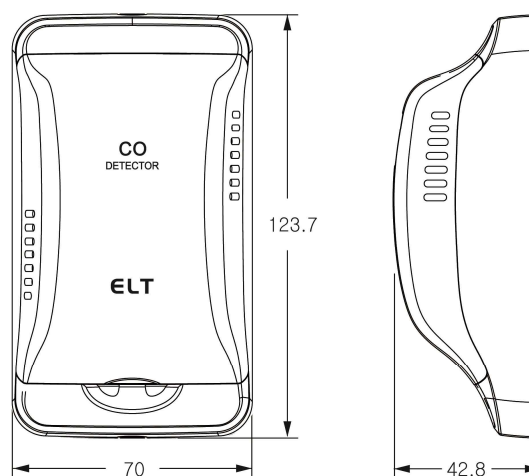
Output Voltage

2 ~ 10VDC (0 ~500/1,000ppm, Linear output)

Output Current

4 ~ 20mA (0~500/1,000ppm, Linear output)

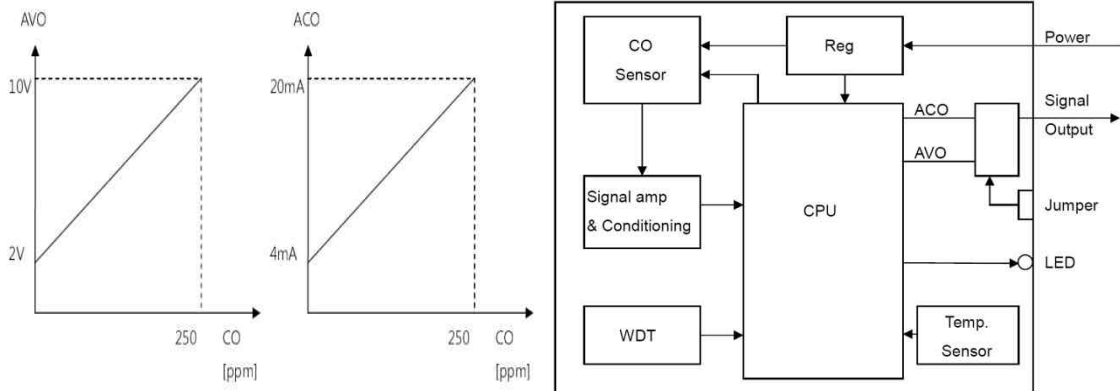
Dimensions (unit : mm)



- Size : 123.7mm x 70mm x 42.8mm
(Length x Width x Thickness)

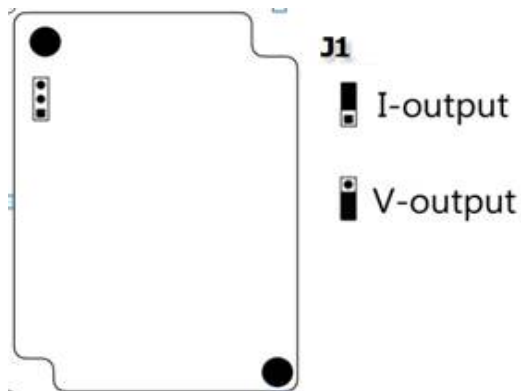
Analog Voltage & Current Output and Block Diagram

Analog Voltage(V) or Current(I) Output



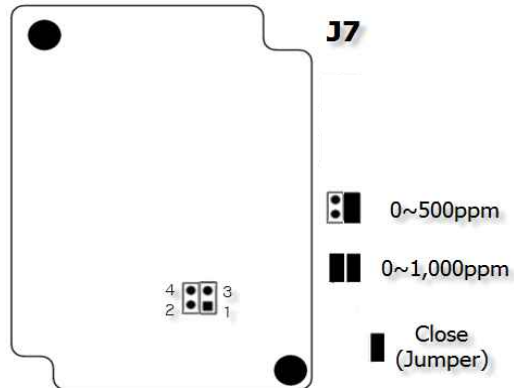
V/mA output Selection Method

Jumper Selection : J1

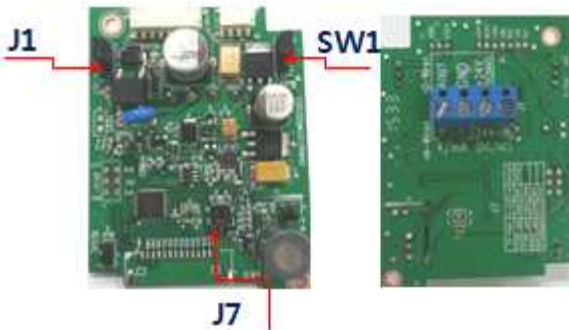


CO Range Selection

Jumper Selection : J7



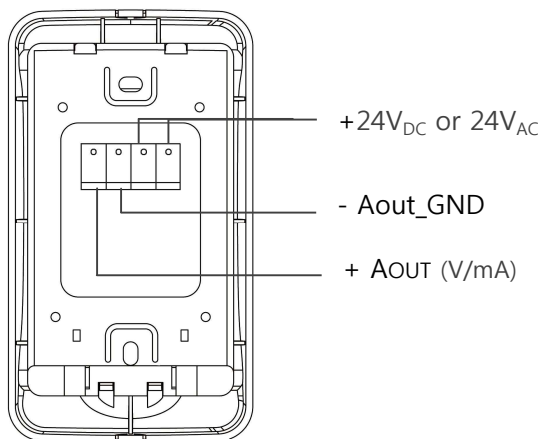
Jumper location on PCB and Setting & Function



Jumper	Location	Setting
SW1	Right Up Side	24V/12V
J1	Left Up	Current/Voltage
J7	Center Down	Reading Range

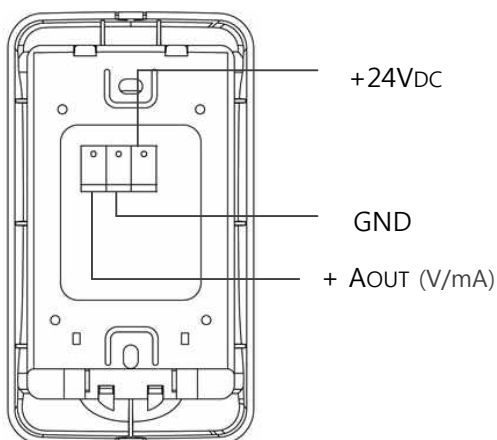
Wiring Method

4-Wired (AOUT, GND, 24V(+/-)_AC/DC)



※ Please make it sure to put power to the right location with reference to Manual. Power input into AOUT damage the sensor

3-Wired (AOUT, Common_GND, +24VDC)



※ Please make it sure to use VDC only on right location with reference to Manual. VAC use or wrong or power input into AOUT damage the sensor

Ordering Code with Option selection.

Ordering Code	LCD	3 wired or 4 wired	Remark
COD-200-CH	X	4 wired (AOUT+,AOUT_GND, 24VAC(+/-) or 24VDC)	Default
COD-200L-CH	O	4 wired (AOUT+,AOUT_GND, 24VAC(+/-) or 24VDC)	LCD(O), 4wired
COD-200-CH-3W	X	3wired (AOUT, Common_GND, +24VDC)	LCD(X), 3wired
COD-200L-CH-3W	O	3wired (AOUT, Common_GND, +24VDC)	LCD(O), 3wired

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