Datasheet for (CO) Transmitter

Model : COD-200 / COD-200L

COD-200L **(with LCD Display)**

COD-200

General

COD-200 and COD-200L are the CO Transmitter which detect CO gas of the air and send signal to controller for the protect people at parking lots, Industrial working places and Buildings. COD-200 is upgraded from COD-100 to give wide 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
  0-20mA / 0-10V
- Exclusive Compensation Algorithm is adapted.

COD-200(L) CO Detector Specifications

General Performance

Operating Temperature range

-10 ~ 50℃

Operating Humidity range

10 ~ 90% RH (Non-condensing)

Storage Temperature

-30℃ ~60℃

Storage Humidity

10~95%RH (Non-condensing)

CO Measurement

Sensing Method

Semiconductor Type

Measurement Range

0 to 250 ppm(0 to 100, 300 ppm is option)

Accuracy

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

0~100ppm : ±10% FS

100~250/300 : ±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

Voltage output

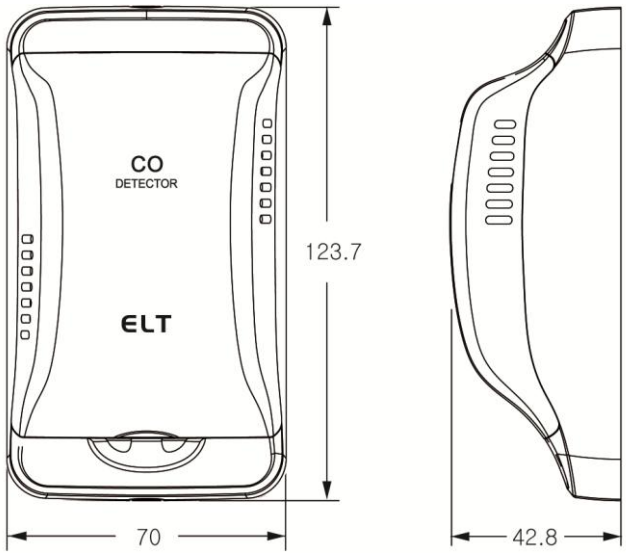
2 ~ 10VDC

(0 ~100/250/300ppm, Linear output)

Current output

4 ~ 20mA (0~100/250/300ppm, Linear output)

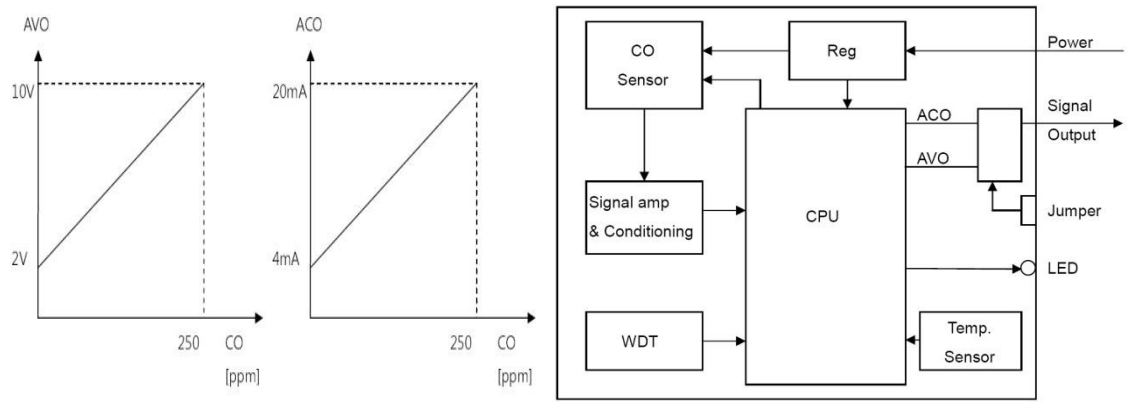
Dimensions (unit : mm)



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

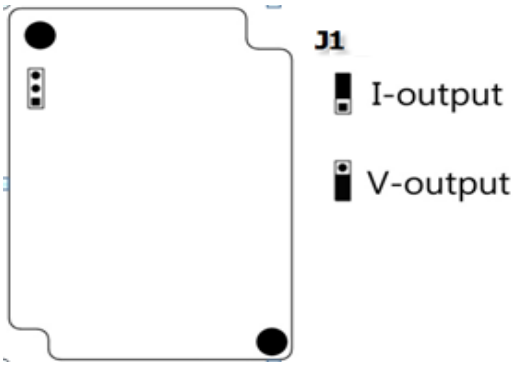
Analog Voltage & Current Output and Block Diagram

Analog Voltage(V) or Current(I) Output



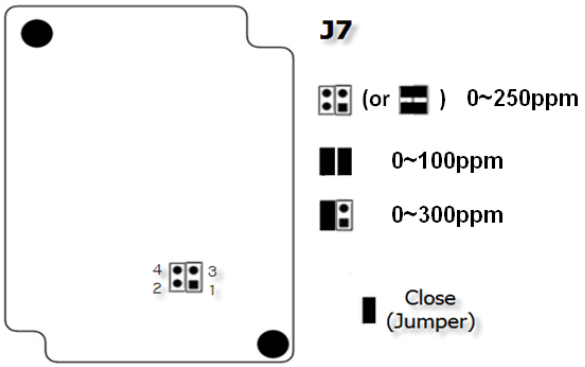
V/mA output Selection Method

Jumper Selection : J1



CO Range Selection

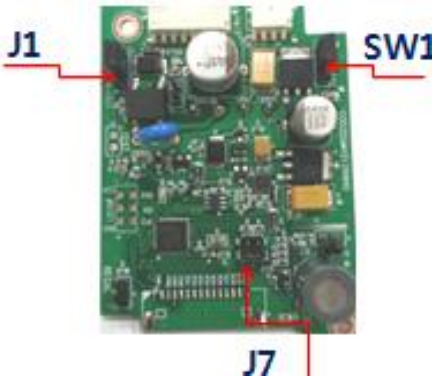
Jumper Selection : J7



Current output is default setting on sale.

Remark: Image is just for reference and could be changed without prior notice

Jumper location on PCB and Setting & Function

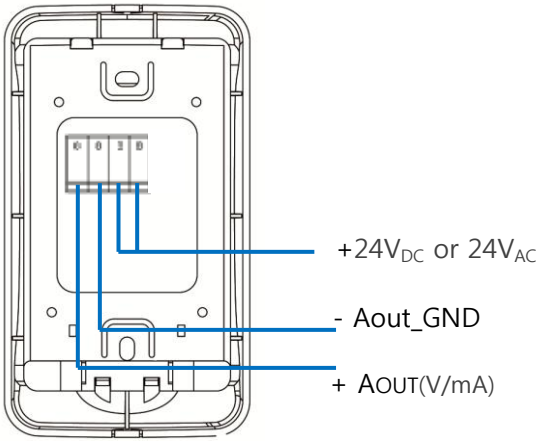


Jumper	Location	Setting
SW1	Right Up Side	24V/12V
J1	Left Up	Current/Voltage
J7	Center Down	Reading Range

※ Remark: Image is just for reference and could be changed without prior notice

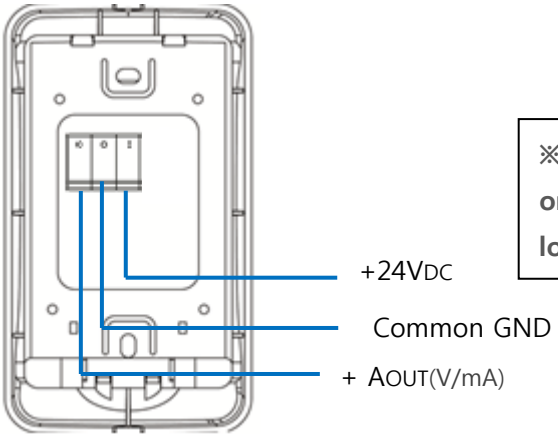
Wiring Method

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



※※Please make it sure to use either 24VDC+ or 24AC(+/-) power wire only on right location because the insertion into wrong location such as AOUT port brings the serious failure.

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



※Please make it sure to use +24VDC power wire only on right location because the insertion into wrong location such as AOUT port brings the serious failure.

Ordering Code with Option selection

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

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