Datasheet for (CO) Transmitter
COD-200(L)

COD-200

COD-200L (with LCD Display)

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
        (Option: 0-20mA / 0-10V on purchase)

• Exclusive Compensation Algorithm is adapted.

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.

※ Design or Specification of COD-200(L) could be changed without prior notice.

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 : ±5% FS
100~250/300 : ±10% FS

Response Time
< 1 minutes

Sampling Interval
Every 30 seconds.

Sensor Life Expectancy
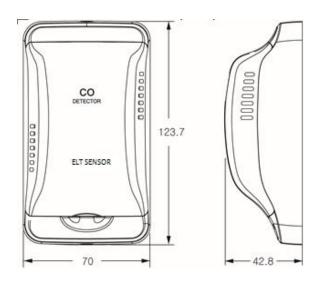Over 3 years

Electrical Data

Power Input & Tolerance
24VDC (3-Wired) or 24VAC/24VDC (4-Wired)
17.5~30 V_{AC} / V_{DC} ,
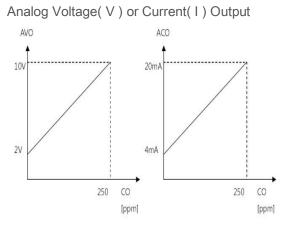Option (12VDC : need counsel before ordering)

Output

Current output 4 ~ 20mA is set as default.
Voltage output 2 ~ 10VDC

(0-20mA and 0-10V can be selected instead by
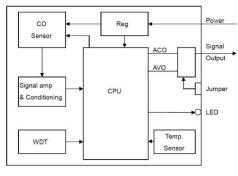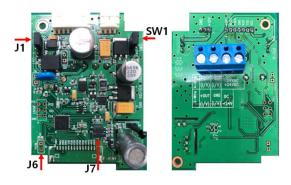   designating on ordering process.)

Dimensions (unit : mm)

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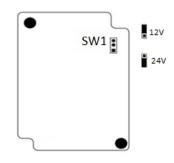   (Length x Width x Thickness)

Analog Voltage & Current Output and Block Diagram

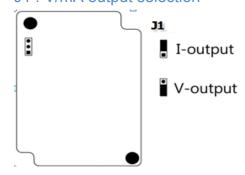Analog Voltage(V) or Current(I) Output

Jumper location on PCB

SW1 : Power input selection

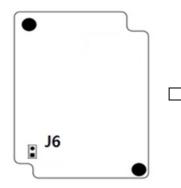24V is default.

(need counsel on ordering to use 12V instead)

J1 : V/mA output selection

J1

I-output

V-output

J7: CO range selection

J7

(or) 0~250ppm

0~100ppm

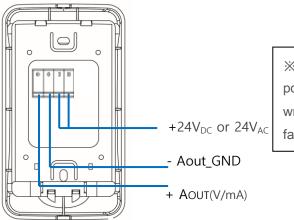0~300ppm

Close
(Jumper)

J6: Zero Calibration

J6

J6

※ Locate sensor powered at fresh air where Co gas is not exist (0ppm). Let J6's two holes short, using tweezers or so, to initiate Zero-calibration takes 2~2.5 minutes until LED blinking stop.
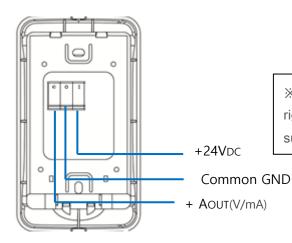
Wiring Method

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

+24V$_{DC}$ or 24V$_{AC}$

- Aout_GND

+ A$_{OUT}$(V/mA)

※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)

+24V$_{DC}$

Common GND

+ A$_{OUT}$(V/mA)

※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)