DATA SHEET

Carbon Dioxide (CO₂)Transmitter And Controller Operation Manual CD-200 / CD-200L



CD-200 (without LCD Display)

General

CD-200 series are Transmitter type models of CO2 Sensor, which give current output or voltage output (Jumper selectable). They are 4 + 2 wired (2 Power lines, 2 signal

lines and 2 relay lines).



CD-200L (with LCD Display)

Features

- Models available with SPST (Single Pole
 Single Throw, normally open) relay output
- •Output mode : Voltage output/Current output
- Models available with LCD for sensor readings and status information (CD-200).
- Non-Dispersive Infrared (NDIR) technology used to measure CO₂ levels.
- Re-calibration function (of S-110H module)
 . 7 days period Auto-Calibration software could be installed in Sensor on Sale.
 - . 10min. Manual Recalibration is executable with TRB-100 tool.

•Size : 123mmx69mmx40mm

Specifications

General Performance

Operating Temperature range -10 ~ 60℃ Operating Humidity range 0 ~ 95% RH (Non-condensing) 'G' Option 0 ~ 99%RH (non-condensing) Storage Temperature -30℃ ~ 70℃

CO2 Measurement

Sensing Method NDIR (Non-dispersive Infrared) Measurement Range 0 ~ 2,000ppm (5,000/10,000ppm is settable with jumper) Accuracy ±30ppm ±5% (ACDL operation : ±30ppm ±3% of reading) Response Time (90%) 150 seconds Sampling Interval

3 sec.

Electrical Data

Input Power 24VAC ± 20%, 50~60Hz or 24VDC (12~36VDC) (2 Power lines)

Output Connector

4 ~ 20mA is default (2 ~ $10V_{DC}$, 0 ~ $10V_{DC}$ or 0 ~ 20mA is settable by user any time)

Relay Output(available for CD-200)

Contract Rating

1A/120VAC

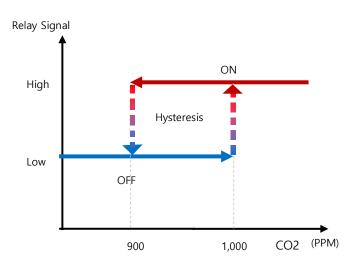
Configuration

SPST, Normally Open relay Relay Activated

On ≥ 1,000ppm,

Relay Deactivated

Off ≤900ppm



Relay on signal is designed to be activated when CO2 measured value surpass 1,000ppm and deactivated down to 900 ppm to avoid unwanted rapid switching by hysteresis effect.

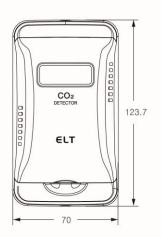
Relay activation and deactivation point could be changed on sale as option.

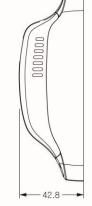
Option 1.

Relay Activated & Deactivated

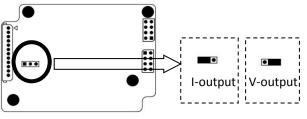
On ≥ 900ppm, Off ≤800ppm

Dimensions (unit : mm)

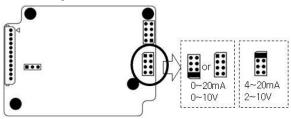




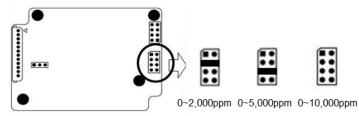
JP1 Output Selection



JP2 Output Selection

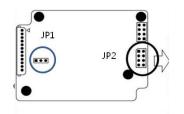


JP2 ppm range Selection

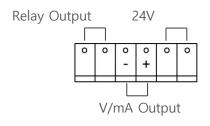


Example JP1, JP2 Selection

(For current output, 0~5,000ppm range, 4~20mA output selection)



Wiring Method



ELT SENSOR Corp.

ChunuiTechnopark 101-909)36,Bucheon-ro 198beon-gil,Wonmigu,Bucheon-si, Gyeonggi-do, 420-857,Korea Phone. +82-32-719-8055, http://www.eltsensor.co.kr Subject to change without notice. Printed in KOREA ELT Sensor Corp. All rights reserved. 2020. FEB.