

Carbon Monoxide Detector

CO gas detection & alarm unit specialized for underground parking area

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CO CD-10

Introduction

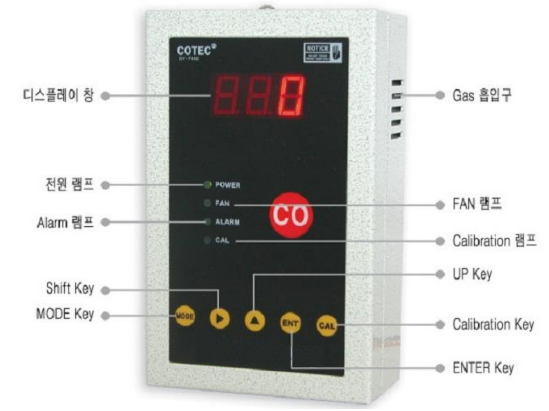
CD-10, the artificial intelligent CO gas alarm unit specialized for underground parking area, using electro-chemical sensor, detects CO gas density and provides the measured density signal to both 2 step relay output and standard current signal output (DC 4-20mA) to be connected to various external devices to carry out underground parking area atmosphere environmental monitoring.

Features

- Built-in micro processor digital CO gas alarm unit
- Realize various artificial intelligent functions.
 - User programmable fan relay and alarm relay density
 - User programmable fan relay and alarm relay delay time.
 - User programmable scale range.
 - Automatic zero calibration
- Various signal output
 - Two step relay output
 - DC 4-20mA / full scale
- Robust metal housing
- On site indicating FND display

Specification

Type	Independent transmitter
Sensor type	Electron-chemical
Detection principle	Diffusion
Density display	F.N.D (3-Digit/PPM)
Detection range	0-500PPM (default : 250PPM)
Accuracy	± 5% / full scale
Response time	T90-within 10 seconds
Alarm density	Default : LOW(FAN)-50PPM, HIGH(FAN)-70PPM
Alarm delay time	Default : 5 seconds
External output	HIGH(alarm) / LOW(fan) relay, 4-20mA / full scale
Input power	20-30V AC/DC, 60Hz
Housing material	Metal case
Operation temperature	-20°C-50°C
Operation humidity	0-95%RH (non-condensing)
Initialization time	1 minute



*User programmable scale range, alarm density, and alarm delay time.

Menu & Key

- H.SC : Set scale range
- Fan : Set fan relay density
- F.dt : Set fan delay time
- ALr : Set alarm density
- A.dt : Set alarm delay time
- CA1 : Zero calibration (using clean air)
- CA2 : Span calibration (using standard gas)

Key	Name	Description
MODE	MODE KEY	Select menu.
▶	SHIFT KEY	Change input digit when you input value.
▲	UP KEY	Increase the value by 1.
ENT	ENTER KEY	Input value
CAL	CALIBRATION KEY	Calibrate sensor

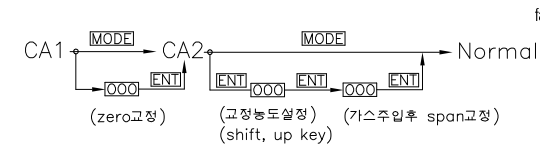
Programming

Step	Key	Description
Enter into menu mode	▶, ▲	Press [SHIFT] & [UP] key at the same time, and then H.SC menu is displayed.
Select menu	MODE	Press [MODE] key to select menu.
Enter into input mode	ENT	Press [ENT] key, and then the first input digit is blinking.
Input value	UP, SHIFT	Press [UP] key to select value and press [SHIFT] key to change input digit.
Save the value	ENT	Press [ENT] key to save the value. After finish saving, it returns to measuring mode automatically.
Enter into calibration mode	CAL	Press [CAL] key during 3 seconds.

Programming process

- H.SC → FAn → F.dt → ALr → A.dt → Normal

Calibration process



Test

- Press [MODE] & [▶] key at the same time, and then values goes up continuously. When it exceeds set value, you can check whether fan & alarm relay contact operates normally.

Dimension & Wiring

