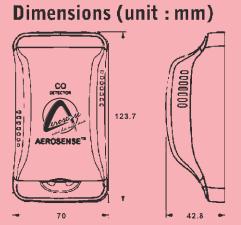


SERIES CMT-100

CARBON MONOXIDE TRANSMITTER





Series CMT-100, Carbon Monoxide Transmitter which is designed to detect Carbon Monoxide gas in air with analog output and RS-485 MODBUS output.

It is 3-wired supporting and gives current, voltage and RS485 MODBUS output.

FEATURES:

Pre-calibrated

Convenient use with varying voltage applications Easily installed at a low cost when used with exclusive

case

Provides output signal proportional to CO level Optimum for parking lot, tunnel & underground places.

Ordering Table:

Model NO	Specifications
CMT-100	Carbon Monoxide Transmitter
CMT-100-LCD	Carbon Monoxide Transmitter with display
CMT-100-M	Carbon Monoxide Transmitter with MODBUS Communication
CMT-100-M-LCD	Carbon Monoxide Transmitter with MODBUS Communication & display

SPECIFICATIONS:

Sensing method: Semiconductor type
Operating Temperature range: -10 to 50°C
Operating Humidity range: 10-90% RH
Storage temperature: -30 to 60°C
Storage Humidity: 10-95% RH

Measurement range: 0 to 250 ppm (0-100, 300 ppm

is optional)

Accuracy: ±3% FS Coverage area: 400 sq. m

IP Rating: IP54

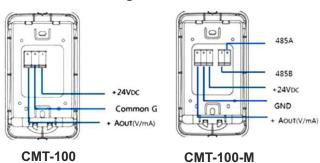
Response time: < 1 minute

Sampling interval: every 30 seconds Input power: 24VDC (3-wired)
Size: 123mmX70mmX43mm

Output:

Voltage: 2-10 VDC (0-10 VDC) Current: 4-20mA (0-20mA) RS485 MODBUS Output

Wiring method



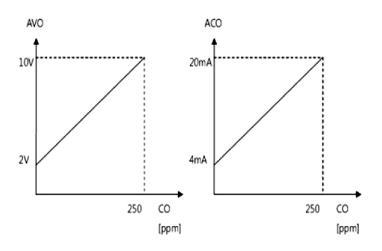




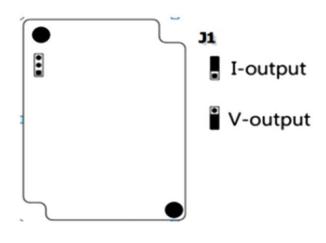
SERIES CMT-100

CARBON DIOXIDE TRANSMITTER

Analog Voltage & Current Output and Block diagram



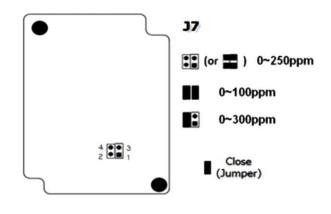
Jumper Selection: J1



CO Reg Power Signal Output ACO Output AVO Jumper & Conditioning WDT Temp. Sensor

V/mA output Selection Method CO Range Selection

Jumper Selection: J7



Current output is default setting on scale.

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



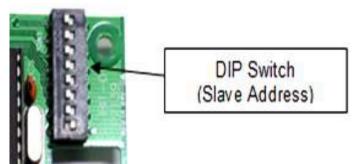


SERIES CMT-100

CARBON DIOXIDE TRANSMITTER

RS485 Mod-Bus Slave Address setting

Mod-Bus slave address can be set by DIP Switch



Hold Register specifications
 Mapping Base Address: 0x0050
 Hold Register: Max. Read size: 4

Register		Data type	Unit	Description
Address				
0 x 0050	СО	2 Byte WORD	PPM	Co Ex) 80 ->80 PPM
0 x 0051	Reserved			
0 x 0052	Reserved			
0 x 0053	Reserved			

· DIP Switch

ON								
OFF								
	1	2	3	4	5	6	7	8

Example) setting Slave Address 1

RS-485 MODBUS Protocol

- Modicon Mod-Bus RTU Mode: Follow Modicon Modbus protocol
- 2. Communication specifications

Parameter	Description
Baud Rate	9600 BPS
Data Bit	8 Bits
Parity Bit	None
Stop Bit	1
Flow Control	None

- 4. Supported Function Code
 - Currently supported only code 03 and exception responses.
 - Error Code 0x83 or other

Exception code	Description
01	Exception of Function code
02	Exception of starting address
03	Exception of Quantity of Registers