



COT-100
INTELLIGENT CO INDICATOR / TRANSMITTER



MAIN FEATURES

- *CO measuring range is 0-700 PPM (typical) with Temperature compensation*
- *3 wire 4 – 20 mA Output signals (typical) for 0 – 700 PPM Co concentration.*
- *Output signal could be changed to 0-10VDC if specified.*
- *Fully calibrated.*
- *Excellent ability of Anti-interference*
- *Low power consumption*
- *Excellent long term stability*
- *Long life span > 5 years.*
- *High sensitivity, high resolution*
- *Excellent linear output*
- *Offset programming stored in internal Eprom memory.*

DESCRIPTION

COT-100 is a general-purpose and miniaturization electrochemical carbon monoxide detection Transmitter.

COT-100 utilizes electrochemical principle to detect CO in air which makes the module with high selectivity and stability , Built-in temperature sensor for temperature compensation.

COT-100 is a combination of mature electrochemical detection principle and sophisticated circuit design.

COT-100 is factory calibrated . The calibration coefficients are stored in the transmitter's microcontroller memory, which are used by the sensor's internal signal detecting process.

3 wire 4-20 mA output signals (typical) for CO concentration from 0 – 700 PPM .. This makes system integration quick and easy . (Could be changed to 0-10VDC if specified) .

Its size, low power consumption long signal transmission making it the best choice for various applications such as HVAC , refrigeration , Indoor air quality monitoring/control , Smart home appliances , School , Air cleaner systems and others.

The **COT-100** features a 2-line LCD display on the front cover for CO concentration display.

The **COT-100** offers possibility of Offset adjustment for CO read out and output signal.

TECHNICAL DATA**Display**

2-line X 16 Character LCD display with backlight

LCD Resolution

1 PPM CO Concentration

Ranges

0-700 PPM CO Concentration

Accuracy

±5 PPM or 5% of reading

Life span

>5 year

Input Power

From 12VDC up to 30VDC

Output signal

3 wire 4 – 20 mA for CO concentration from 0 – 700 PPM (Typical)
Output may be 0-10 Vdc voltage signal (optional)

Response time

< 60s for 90% step change of CO concentration

Coverage Area

600 m²

Characteristic

Linear

Isolation voltage

500 Vac

Operating Range

0 – 50 °C - 0~95% RH (No condensation)

Storage temp.

-40 – 70 °C

Pre-heating time

3 min typical

ELECTRICAL CONNECTIONS
Cable Connection

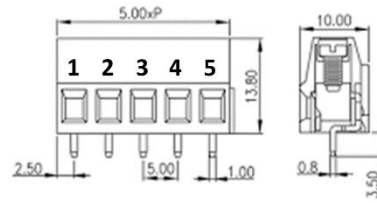
PIN 1 – Ground

PIN 2 – Input Power . (12 – 30VDC)

PIN 3 – Ground

PIN 4 – 4-20 mA Output (0 – 700 PPM CO)

PIN 5 – Spare


OFFSET PROGRAMMING

Open the top cover you shall be able to see the two programming push buttons

Buttons:

- "Λ+V" *Press both to enter setting mode or to SAVE*
- "V" *Decrease the value*
- "Λ" *Increase the value*

Enter Password

- Press "Λ+V" , display shows "1230".
- Press "Λ" to change password to "1234"
- Press "Λ+V" together to enter
- (Press Λ+V twice or enter wrong password will logout setting mode.)

CO Offset Setting

- Display shows "OFFSET".
- Press "Λ" to increase, press "V" to decrease.
- Press "Λ+V" to save and exit programing .

HOW TO ORDER

COT-100 – AA – BB – CC – DD - EE

AA – CO INDICATION RANGE , PLEASE WRITE DIRECTLY
0 – 700 PPM (TYPICAL)

BB – CO OUTPUT RANGE , PLEASE WRITE DIRECTLY

CC – OUTPUT SIGNAL
3 WIRE , 4-20 MA (TYPICAL)
0 – 10 VDC
0 – 5 VDC
OTHERS (PLEASE SPECIFY)

DD – SUPPLY VOLTAGE
12 VDC (TYPICAL)

EE – OPTIONS (PLEASE SPECIFY)