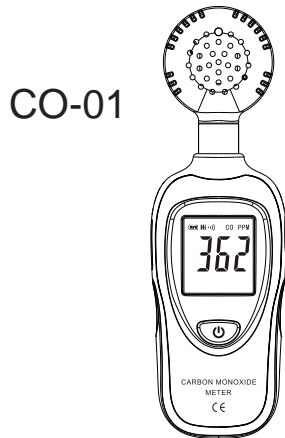


User's Manual
Carbon Monoxide Meter



Please read this user's manual thoroughly before using this unit and keep it properly for your future reference.

1.  Safety

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

◆ **Environment conditions:**

Operating Humidity $\leq 90\%$ (Non-Condensation)

Storage Humidity: $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$

Operating Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$


Storage Temperature: $-30^{\circ}\text{C} \sim 60^{\circ}\text{C}$

◆ **Maintenance**

Repairs or servicing not covered in this manual should only be performed by qualified personnel.

Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

◆ **Safety Symbol**

 Comply with EMC

2. General Description

The Carbon Monoxide Meter is designed with a high accuracy CO sensor, providing high accuracy, fast response and stable readings. It is used to detect the presence of carbon monoxide in wide applications:

- Poorly maintained furnaces, gas heaters, or fireplaces.
- Dirty or plugged chimneys, or flue exhausts.
- Poorly maintained gas, oil, or kerosene appliances.
- Internal combustion engines (e.g., automobiles, lawnmowers, blowers).

The Meter indicates the presence of CO by a reading on the LCD and a beeper tone. The beeper functions much like clicking of a Geiger counter:

- Above 200 PPM, the beeper sounds continuously with the concentration of CO.
- From 35 PPM to 200 PPM, the beeper sounds discontinuously with the concentration of CO.

3. Features

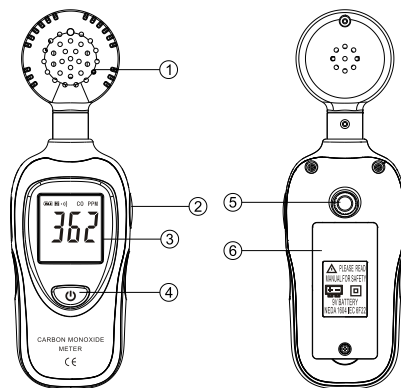
- ◆ Sensor: Stabilized electro-chemical Gas-specific
- ◆ Measurement range: 0 ~ 1000 PPM
- ◆ High accuracy
- ◆ Large LCD display
- ◆ Accuracy is not affected by humidity
- ◆ Sensor drift is small, so that the measurement reading is stable
- ◆ Compact, light and easy to carry
- ◆ Low battery consumption, long battery life

4. Specifications

Accuracy	5% ±10PPM
Measurement Resolution	1PPM
Data update	2 times/second
Fast sampling Time	2 times/second
Response Time	< 30S
Zero Drift	< 5PPM
Repeatability	±2%
Long-time stability	<5%/year
Operating Conditions	-20~50°C; 15% ~90%RH
Storage Conditions	-30~50°C; 0%~80%RH
Audible Alarm	≧ 35PPM and ≧ 200PPM
Auto zero	√
Backlight	auto shut off after 30 secs of inactivity
Auto power off	after 15 minutes of inactivity
Typical sensor life	About 5 year

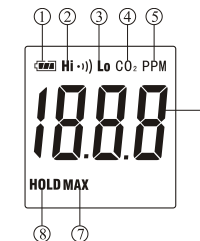
5. Meter Description

- ① CO sensor
- ② MODE/MAX/DATA hold button
- ③ LCD display
- ④ Power/Backlight button
- ⑤ Tripod nut
- ⑥ Battery cover



6. LCD Display Description

- ① “” battery icon: When the low battery icon “” appears, replace the meter's battery;
- ② “Hi” icon: when the measurement reading is over 200PPM, this icon appears along with continuous audible alarm.
- ③ “Lo” icon: when the measurement reading is between 35PPM and 200PPM, this icon appears along with discontinuous audible alarm.
- ④ “CO”: carbon monoxide icon
- ⑤ “PPM”: carbon monoxide unit
- ⑥ Measurement reading display
- ⑦ MAX icon
- ⑧ HOLD icon



7. Operation Instruction

- a. Open battery cover and install a 9-volt battery in the battery compartment.
- b. Power ON: Turn the meter on by pressing “” button. Hold the meter and point the sensor to the site to be measured, the measurement reading will be displayed on the LCD. If the reading is above 35PPM, the audible alarm will be heard.
- c. Backlit: After turning the meter on, momentarily press “” button, the backlit will be on/off.
- d. HOLD/MAX function: Press "MODE" button once, the "HOLD" icon will appear on the LCD, which indicates the data is frozen. Press the button again to exit the HOLD mode and enter into MAX mode to view the current MAX reading, the "MAX" icon appears on the LCD. Press the button once more to return to the normal measurement.
- e. Power OFF: Turn the meter off by pressing and holding “” button for approx. 3 seconds until the LCD is switched off, then loose the button. The meter will automatically power off after 15 minutes of inactivity.

8. Accessories

- ① User's manual
- ② 9V battery