



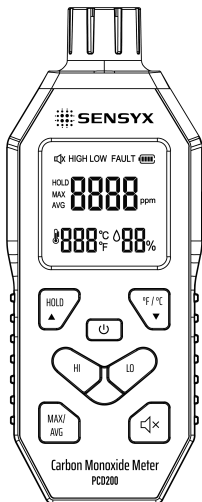
SENSYX

PROFESSIONAL-GRADE GAS DETECTION

CARBON MONOXIDE METER

WITH TEMPERATURE & HUMIDITY

PCD200



USER MANUAL

Read this manual before use. Keep it for future reference.

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Questions before you start? Email support@getsensyx.com with your model number and order number and we will help you directly.

**WARNING**

Carbon monoxide is a colorless, odorless, poisonous gas. It can kill before you are aware it is present.

- This meter is a **manual inspection tool**. It is not a life-safety alarm and must never be relied on to protect sleeping or unattended people. See section 2.
- **This meter cannot detect carbon monoxide during the first 30 seconds after power-on.** Wait for the warm-up countdown to finish before relying on any reading.
- Power the meter on in clean, unpolluted air so the sensor sets its zero point correctly.
- Never attempt to repair or modify the meter, and do not open the case at any time. There are no user-serviceable parts inside.
- Do not use this meter in an explosive or oxygen-enriched atmosphere. It is **not** intrinsically safe.
- Never enter a space you suspect contains carbon monoxide in order to take a reading. Ventilate first, then measure.

RECOGNIZE THE SYMPTOMS

Mild

Headache, dizziness, nausea, fatigue – often mistaken for flu, and often affecting several people in the same space at once.

Severe

Confusion, shortness of breath, chest pain, seizures, loss of consciousness.



WARNING

If anyone shows these symptoms, **leave the area immediately, move to fresh air and call emergency services.** Do not stop to take a reading and do not go back in.

IF THE METER ALERTS

- 1 Move yourself and anyone else to fresh air.
- 2 From a safe place, shut down or switch off the suspected source – an engine, appliance, heater or generator – if you can do so without re-entering.
- 3 Ventilate the space.
- 4 Have the source inspected by a qualified technician before it is used again.
- 5 Re-measure only once the area has been ventilated, and confirm the reading has returned to zero before anyone re-occupies the space.

**THIS IS NOT A RESIDENTIAL CO ALARM**

The PCD200 is a professional handheld measuring instrument for manual spot-check inspection. It is **not** a single- or multiple-station carbon monoxide alarm, is **not** within the scope of UL 2034 (*Standard for Single and Multiple Station Carbon Monoxide Alarms*), and is **not** a substitute for a UL 2034-listed alarm.

Install a listed CO alarm for continuous life-safety protection in dwellings.

WHAT THIS METER IS FOR

Taking a reading, at a chosen point, at a moment you choose – while you are holding it and watching the display. Typical work:

- Combustion and flue spill checks on furnaces, boilers and water heaters.
- Ambient CO surveys in workshops, plant rooms, garages and loading bays.
- Verifying that a space has cleared before re-entry.
- Documenting peak and average exposure over a task using MAX and AVG.

Understand these before you rely on a reading.

Warm-up

No CO measurement at all for the first 30 seconds after power-on.

Response time

60 seconds. The reading lags a changing atmosphere, so a figure taken too early will read low.

Attended use only

Designed to be held and watched. Not designed for continuous or unattended monitoring, and it has no logging.

Thresholds

The high and low alert points are set by you. The meter prescribes no life-safety values.

Single gas

Carbon monoxide only. It does not detect smoke, natural gas, propane, refrigerants, or oxygen deficiency.

Not intrinsically safe

Must not be used in explosive or oxygen-enriched atmospheres.

Sensor ageing

The electrochemical sensor has a 10-year working life and loses sensitivity as it ages. Test it regularly (section 11).

3 QUICK START

- 1 Charge the meter fully before first use (section 8).
- 2 Take it to an area of **clean, unpolluted air** and hold the power button for 3 seconds.
- 3 Wait out the 30-second warm-up countdown. The meter cannot measure CO until it finishes.
- 4 Set your high and low alert thresholds with **HI** and **LO** (sections 9.6 and 9.7).
- 5 Hold the meter with the sensor inlet in the air you want to sample and allow up to 60 seconds for the reading to settle.

BUTTONS AT A GLANCE

HOLD ▲	Freeze the reading on screen / increase a value
°F/°C ▼	Switch temperature unit / decrease a value
HI	View and set the high alert threshold
LO	View and set the low alert threshold
MAX/AVG	Show the peak reading, then the running average
MUTE	Silence the buzzer during an alert

Full instructions start at section 9. Read sections 1 and 2 before you rely on this instrument for anything that matters.

Carbon monoxide (CO) is a colorless, odorless, tasteless, highly poisonous and flammable gas, slightly less dense than air.

CO inhibits the blood's ability to carry oxygen, which leads to carbon monoxide poisoning. Mild symptoms include headache, dizziness, nausea and fatigue. More severe symptoms include confusion, shortness of breath, chest pain, seizures and loss of consciousness. Prolonged exposure to high levels of CO can cause brain and heart damage, and death.

WHERE IT COMES FROM

CO is a common industrial hazard produced by the incomplete burning of material containing carbon – natural gas, gasoline, kerosene, oil, propane, coal or wood. Forges, blast furnaces and coke ovens produce CO, but one of the most common sources of exposure in the workplace is the internal combustion engine.



WARNING

You cannot smell, see or taste carbon monoxide. Never use your senses to judge whether a space is safe.

The OSHA permissible exposure limit (PEL) for CO is **50 parts per million (ppm)**. OSHA standards prohibit worker exposure to more than 50 parts of CO gas per million parts of air, averaged over an 8-hour period.

SETTING	LIMIT
General industry, 8-hour TWA	50 ppm
Maritime operations, 8-hour PEL	50 ppm
Maritime – workers must be removed from exposure above	100 ppm
Peak level, Ro-Ro cargo operations	200 ppm

Ro-Ro operations are roll-on roll-off operations during cargo loading and unloading.

USING THE LIMITS WITH THIS METER

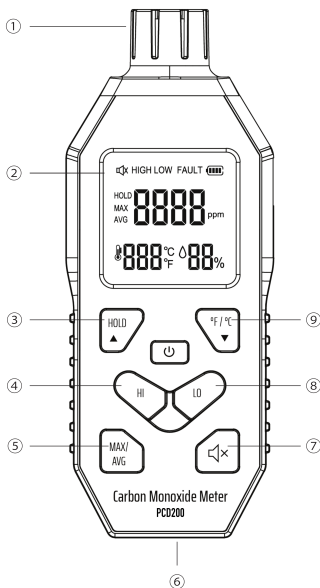
The 8-hour PEL is a *time-weighted average*, not an instantaneous ceiling. The **AVG** function (section 9.5) gives the running average since power-on, which is the figure to compare against a TWA. The **MAX** function records the highest excursion.

Set your high and low alert thresholds to suit the job and the limits that apply to you. See sections 9.6 and 9.7.

Exposure limits are quoted for reference and may be revised. Confirm the current limits that apply to your work and jurisdiction.

- Dual precision sensors measure carbon monoxide concentration plus temperature and humidity.
- Large VA LCD with two-color backlight shows CO, temperature and humidity together.
- User-configurable high and low **alert** thresholds.
- Records the peak CO level and computes the average concentration.
- Hold function freezes a reading so you can write it down.
- Buzzer can be muted.
- Temperature switchable between °F and °C.
- Rechargeable 1500 mAh lithium-ion battery, USB Type-C charging, up to 100 hours of operating time and up to 120 hours standby.
- Electrochemical CO sensor with a 10-year working life.

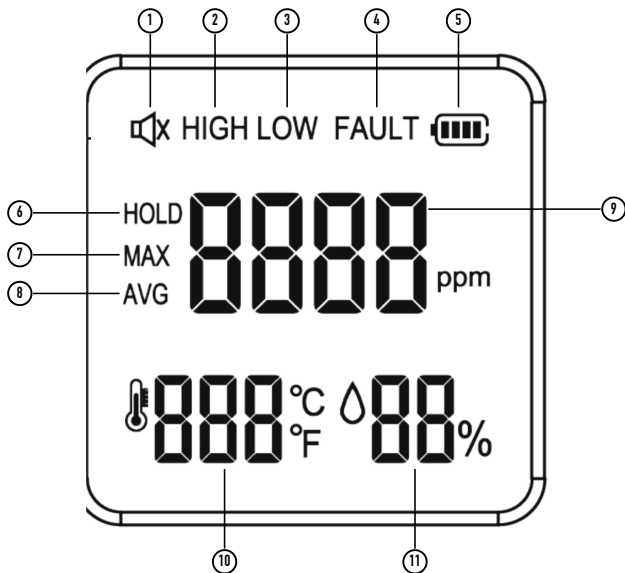
Alert, not alarm. Throughout this manual the audible and visual indications above the thresholds you set are called *alerts*. They tell the person holding the meter what the sensor is reading right now. They are not the alarm signal of a life-safety device.



- | | |
|------------------------------------|--|
| ① Sensor inlet | ⑥ USB Type-C charging port |
| ② LCD screen | ⑦ Mute button |
| ③ Data hold / Up (HOLD ▲) | ⑧ Low alert setting (LO) |
| ④ High alert setting (HI) | ⑨ Temperature unit / Down (°F/°C ▼) |
| ⑤ Max / Average (MAX/AVG) | |

The power button sits at the center of the keypad. Keep the sensor inlet (1) clear – covering it with a hand or a glove will slow or prevent a reading.

7 DISPLAY



ALL SEGMENTS SHOWN FOR REFERENCE — THE DISPLAY NEVER SHOWS THEM ALL AT ONCE.

- | | |
|---------------------------|----------------------------|
| ① Mute indicator | ⑦ MAX reading indicator |
| ② High alert indicator | ⑧ AVG reading indicator |
| ③ Low alert indicator | ⑨ CO concentration reading |
| ④ Device fault indicator | ⑩ Temperature with unit |
| ⑤ Battery level indicator | ⑪ Humidity reading |
| ⑥ Data hold indicator | |

The PCD200 contains a built-in 1500 mAh lithium-ion battery. Charge it fully before first use.

- 1** Connect a USB Type-C cable to the charging port on the bottom of the meter **(6)**.
- 2** Connect the other end to a USB power source.
- 3** The battery indicator animates while charging and stops when the battery is full.
- 4** Disconnect when charging is complete.

**BATTERY WARNING**

- Charge from a USB power source that meets USB specifications. Do not charge with a damaged cable or power supply.
- Charge between 32 °F and 113 °F (0 °C to 45 °C), on a hard non-flammable surface, and not on bedding, carpet or upholstery.
- Do not disassemble, crush, puncture, short-circuit, immerse, heat above 140 °F (60 °C) or incinerate the meter or its battery.
- The battery is not user-replaceable. Opening the case voids the warranty and may cause fire.
- Keep the meter away from children.

GETTING THE BEST BATTERY LIFE

- Recharge when the battery indicator shows one segment rather than running it flat.
- If the meter will be stored for more than a month, charge it to about half and top it up every three months.
- Store between 32 °F and 95 °F (0 °C to 35 °C), away from direct sunlight.
- Run time falls in cold conditions. This is normal.

**CAUTION**

Stop using the meter and contact support if it becomes hot, swollen, discolored, or gives off an unusual smell during charging.

SENSOR LIFE

The electrochemical CO sensor has a working life of 10 years. Like all electrochemical sensors it loses sensitivity gradually, so test the meter regularly against a known source of CO (section 11) rather than assuming it still responds.

The sensor is not user-replaceable. If **FAULT** appears and does not clear after a power cycle in clean air, contact support.

9 OPERATION

9.1 POWER ON AND WARM-UP

CAUTION

The meter cannot detect carbon monoxide for the first 30 seconds after power-on. Switch it on in an area of clean, unpolluted air.

- 1** Press and hold the power button for 3 seconds.
- 2** The LCD briefly shows all segments for one second.
- 3** The buzzer sounds a single beep.
- 4** The sensors begin a 30-second warm-up. The LCD counts down from 30; temperature and humidity readings are available during this time.
- 5** A second beep marks the end of the countdown. The meter is now ready to measure carbon monoxide.

9.2 READING THE METER

The main display shows the CO concentration in ppm, with temperature and humidity on the line below. Hold the meter so the sensor inlet (1) is in the air you want to sample and allow up to 60 seconds for the reading to settle.

9.3 ALERTS

When the CO reading rises above a threshold you have set, the meter alerts the person holding it:

CONDITION	INDICATION
Above the low threshold	Display shows the current CO reading with the red and white backlight flashing alternately; one beep per second.
Above the high threshold	Display shows the current CO reading with the red and white backlight flashing alternately; a series of rapid beeps.

9.4 MUTING THE BUZZER

During an alert, press the mute button (7) to silence the buzzer. The display keeps showing the same indicators while muted. Press the mute button again to restore the buzzer; the mute symbol then disappears from the display.



CAUTION

Muting silences the buzzer only. It does not lower the CO concentration and does not make the area safe.

9.5 HOLD, MAX AND AVG

Hold. Press **HOLD** to freeze the current reading; the **HOLD** icon appears. Press it again to resume live measurement.

MAX / AVG. Press **MAX/AVG** once for MAX mode, which shows only the highest CO concentration recorded since power-on. Press again for AVG mode, which shows the average concentration calculated from the start of measurement. Press a third time to return to the live reading.

9.6 SETTING THE HIGH ALERT THRESHOLD

- 1 While measuring, press **HI**. The current high threshold appears and the **HIGH** indicator lights.
- 2 Change the value with **▲** or **▼**.
- 3 Press **HI** again to save and exit.

9.7 SETTING THE LOW ALERT THRESHOLD

Same procedure using the **LO** button. The **LOW** indicator lights while the threshold is displayed.



CAUTION

You choose these thresholds. The meter does not impose safe values and the factory settings are not a recommendation. Set them against the exposure limits that apply to your work (section 4).

9.8 CHANGING THE TEMPERATURE UNIT

Press **°F/°C** to toggle between Fahrenheit and Celsius. The indicator for the selected unit appears on the display.

10 SPECIFICATIONS

CARBON MONOXIDE MEASUREMENT

RANGE	0-1000 ppm
ACCURACY	±5 ppm
RESOLUTION	1 ppm
RESPONSE TIME	60 seconds
WARM-UP TIME	30 seconds
SENSOR TYPE	Electrochemical
SENSOR WORKING LIFE	10 years

TEMPERATURE & HUMIDITY

TEMPERATURE RANGE	-22 °F to 158 °F (-30 °C to 70 °C)
HUMIDITY RANGE	0-100 % RH
ACCURACY	0.1 °F (0.1 °C) / ±1.5 % RH

GENERAL

DISPLAY	VA LCD, two-color backlight
ALERT SIGNAL	Flashing red display and buzzer
ALERT THRESHOLDS	High and low, user-configurable
°F / °C SWITCHABLE	Yes
MAX / AVG / HOLD	Yes
BUZZER MUTE	Yes
POWER SUPPLY	Rechargeable 1500 mAh lithium-ion battery
CHARGING	USB Type-C
OPERATING TIME	Up to 100 hours; up to 120 hours standby
OPERATING TEMPERATURE	14 °F to 122 °F (–10 °C to 50 °C)
OPERATING HUMIDITY	10 % to 90 % RH
DIMENSIONS	5.59 × 2.16 × 1.06 in (142 × 55 × 27 mm)
WEIGHT	3.88 oz (110 g)

Specifications are subject to change without notice.

11 CARE AND MAINTENANCE

To keep the instrument in good working condition:

STORAGE

Store the meter in a location with fresh air, free from dust and moisture, and out of direct sunlight. Keep the sensor inlet protected from dust and physical damage between jobs.

REGULAR TESTING

Periodically test the meter against a known source of CO, such as vehicle exhaust, to confirm that it still responds. Do this in a ventilated area and do not remain in the exhaust stream.

BATTERY

Check the charge level regularly and watch for signs of depletion or damage so the meter is ready when you need it.

CLEANING

Wipe the case with a slightly damp cloth. Keep the sensor inlet clear of dust and lint.

NOTICE
Do not spray cleaner directly onto the meter – this may damage the sensor. Do not immerse the meter, and do not use solvents, alcohol or abrasive cleaners.

12 TROUBLESHOOTING

SYMPTOM	WHAT TO DO
FAULT on the display	The meter is not operating correctly. Power it off and on in clean air. If FAULT persists, contact support.
Will not power on	Charge for 30 minutes, then press and hold the power button for 3 seconds.
Reading will not settle	Allow the full 60-second response time and keep the sensor inlet clear. Confirm the 30-second warm-up has finished.
Reading is not zero in clean air	Power the meter off, move it to fresh air, and power it back on so it re-zeroes in a clean atmosphere.
No sound during an alert	The buzzer is muted. Press the mute button (7) to restore it.
Battery drains quickly	Battery life falls in cold conditions and after years of service. Contact support if run time is far below specification.

If the problem is not listed here, email support@getsensyx.com. Have your model number, date of purchase and order number ready.

13 REGULATORY AND DISPOSAL

BATTERY AND PRODUCT DISPOSAL

This product contains a lithium-ion battery and electronic components. Do not dispose of it in household waste and do not incinerate it. Take it to a battery or electronics recycling collection point, or find one through a recycling program such as Call2Recycle. Local rules may require specific handling – follow them.

CALIFORNIA PROPOSITION 65



WARNING

This product can expose you to chemicals including di(2-ethylhexyl)phthalate (DEHP), which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

14 LIMITED WARRANTY

SENSYX is a brand of SIXPINES PRODUCTS INC, hereafter SENSYX. SENSYX guarantees that for a period of two (2) years from the date of purchase, this product will be free from defects in materials and workmanship. SENSYX, at its discretion, will replace or repair this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or refurbished product or component. If the product is no longer available, a replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. Your replacement unit will be returned to you at no charge and will be covered under this warranty for the balance of the warranty period.

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain support under the warranty. Dealers, service centers and retail stores selling SENSYX products have no right to alter, modify or in any way change the terms and conditions of this warranty.

This warranty is available to customers in the United States. If you are outside the United States and need assistance, contact SENSYX support for guidance.

This warranty does not cover negligent use or misuse of the product, use with an improper voltage or current, use contrary to the operating instructions, or disassembly, repair or alteration by anyone other than SENSYX or a party SENSYX authorizes. It does not cover acts of God such as fire, flood, hurricanes or tornadoes. It does not cover any product that (a) has been subject to misuse or neglect, or (b) has been used in a manner inconsistent with the warnings and instructions in this manual.

SENSYX will not be liable for any loss, damage, or incidental or consequential damages of any kind arising in connection with the sale, use, operation, inoperability, malfunction or repair of this product.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

NOTICE

Opening this product for any reason voids the warranty. There are no user-serviceable parts in the case.

If service is required, email **support@getsensyx.com** and we will take it from there. To help us serve you, have the model number, the date of purchase, and your receipt or order number available.

You may also contact the seller you bought from – either route reaches the same warranty.

PRODUCT SUPPORT

support@getsensyx.com

getsensyx.com

Model PCD200 · Carbon Monoxide Meter

SENSYX reserves the right to make changes at any time, without notice or obligation, in colors, specifications, accessories, materials and models.



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