

User Manual



GSM130

Carbon Monoxide Meter



Introduction

Thank you for selecting the Triplett GSM130 Carbon Monoxide Meter. The GSM130 is a digital, pen style meter, that measures and displays carbon monoxide (CO) concentrations between 0 and 999 parts per million (ppm). The GSM130 can be used for ambient air safety checks of residential areas, appliances, HVAC service on furnaces and hot water heaters, home inspections, and industrial environments where the accumulation of CO is possible.

Features

- Adjustable carbon monoxide warning level Dual Display
- Long life electrochemical sensor Audible alarm
- Backlit LCD for easy viewing in dimly lit areas Low battery indicator
- Auto power off
- Included wrist strap and carry pouch

Safety Information

IMPORTANT SAFETY NOTES

The GSM130 Carbon Monoxide Monitor is intended for general purpose Air Quality monitoring only, and has not been certified for use pursuant to any state or city safety Carbon Monoxide Alarm or Monitoring requirements.

The GSM130 Carbon Monoxide Monitor has not been tested by an independent lab to comply with UL 2034 or IAS 6-96 standard.

It is the responsibility of the customer to obtain and apply current local, state, and national regulations with regard to CO alarms, monitoring and testing.

Electromagnetic (EMI) interference may cause erratic meter readings; do not place meter near areas of high

EMI when taking CO measurements.

Recovery time is required after the meter has been exposed to high levels of CO (the longer the exposure, the longer the recovery time).



Carbon monoxide is life threatening even at relatively low concentrations; learn and recognize the effects of CO poisoning (see Table below). Do not use this meter as a personal safety monitoring device.

Effects of Carbon Monoxide (CO) Poisoning

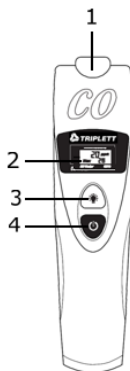
Warning: Ensure that the meter is powered on in room temperature and in an area free of CO. If not, the meter will read incorrectly when subsequently measuring CO.

0-1 PPM	Normal background levels
9 PPM	Maximum allowable short term exposure
50 PPM	Maximum allowable continuous exposure level in any 8-hour period, according to OSHA
200 PPM	Mild headache, fatigue, nausea and dizziness after 2-3 hours
400 PPM	Frontal headache with 1-2 hours, life threatening after 3 hours
800 PPM	Dizziness, nausea, convulsions within 45 minutes. Unconsciousness within 2 hours. DEATH WITHIN 2 TO 3 HOURS
1600 PPM	Headache, dizziness, nausea within 20 minutes, DEATH WITHIN 1 HOUR
3200 PPM	Headache, dizziness, nausea within 5-10 minutes. DEATH WITHIN 25-30 MINUTES
6400 PPM	Headache, dizziness, nausea within 1-2 minutes. DEATH WITHIN 10-15 MINUTES
12800 PPM	DEATH WITHIN 1 TO 3 MINUTES

Description

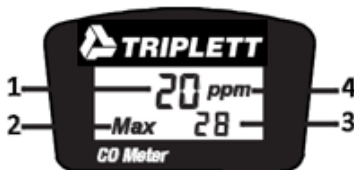
METER DESCRIPTION

1. CO Sensor
2. LCD Display
3. Backligh/Units Button
4. Power/Alarm Limit Button





LCD Display

1. Primary Display
2. MAX reading mode
3. Secondary Display
4. Unit of measure



Button Descriptions


 Turn the meter on and off (short press); Select alarm setpoint value (long press from a powered OFF state; release the button when desired alarm limit is displayed)

 Turn the backlight on and off (short press); Toggle temperature units (long press during self-test period). Reset Maximum CO value (long press in normal operating mode)

Operation

Power the meter


IMPORTANT: Power the meter in a room temperature environment and in an area free of CO; otherwise the meter will read incorrectly when subsequently measuring CO.

Press the  button to power on the meter. The LCD will switch ON and display the programmed CO alarm limit in the primary display and the ambient air temperature in the secondary display (as shown in the LCD description section above). Replace the batteries if the display does not switch ON.

The meter performs a 15-second self-test during which the displayed values will blink. When the self-test is finished, the meter beeps and enters the normal operating mode.


Measurements

The CO15 detects the existence of carbon monoxide (CO) in the environment and displays the reading in parts per million (PPM) in the primary display.

1. To take a measurement, trace the CO15 around the area of the suspected leak.
2. The meter indicates the presence of carbon monoxide (CO) in PPM in the primary display. The secondary display indicates the maximum value since powered on.
3. Long press the “backlight” button while in measurement mode to reset the maximum value.
4. When high CO levels are detected an audible beeper sounds at 25 ppm alerting the user to the dangerous CO levels. The higher the concentration of CO, the faster the beeper will sound.
5. To turn the meter off, press the  button. The meter powers off after 15 minutes of inactivity.




Change Temperature Units

The temperature shows on the display during the self-test only. Power the meter in a room temperature environment for the most accurate readings. Long press

the  button during the self-test to change the temperature units to °C or °F.

Alarm Settings

An audible beep sounds at 25ppm alerting the user to dangerous CO levels. Change the alarm limit value by following the steps below.

1. Turn OFF the meter by pressing the  button.
2. Long press the  button until the options display on the screen.
3. The LCD cycles through these options: 25, 30, 35, 45, 50, 70, 100, 200 ppm.
4. Release the  button at the desired alarm limit value.
5. The meter enters the self-test mode.

Backlight

The meter features a backlit LCD for use in dimly lit areas.

Press the  button to power ON and OFF the backlight.

Auto Power OFF

The meter automatically powers OFF after 15 minutes of inactivity.

Maintenance

Battery Replacement

1. To access the batteries, remove the rear battery compartment cover by pushing up on the tab at the bottom of the meter. Do not operate the meter with the battery compartment open.
2. Replace the (3) 1.5V AAA batteries observing correct polarity.
3. Re-assemble the meter before use.

Safety: Please dispose of batteries responsibly; never dispose of batteries in a fire, batteries may explode or leak. If the meter is not to be used for 60 days or more, remove the battery and store separately.



Never dispose of used batteries or rechargeable batteries in household waste.

As consumers, users are legally required to take used batteries to appropriate collection sites, the retail store where the batteries were purchased, or wherever batteries are sold.

Disposal: Do not dispose of this instrument in household waste. The user is obligated to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment.

6. The low alarm icon will display and the LCD will show the low alarm threshold.
7. Use the ▲ and ▼ buttons to adjust the low alarm threshold.
8. Press the ⏸ button to go to the high alarm setup screen.

Specifications

Measurement range	0-999 ppm
Resolution	1 ppm
Accuracy	0 ~ 100 ppm: $\pm 20\%$ 100 ~ 500 ppm: $\pm 15\%$ <i>Accuracy stated for ambient conditions: 20°C \pm5°C (68°F \pm9°F) and 50% RH \pm20%RH</i>
Sensor Type	Electrochemical
Power supply	(3) 1.5V 'AAA' batteries
Battery life	Approx. 250 hours (backlight off); 35 hours (backlight on)
Dimensions / Weight:	175 x 47 x 28mm (6.9 x 1.8 x 1.1") / 158.8g (5.6 oz.)

Troubleshooting

Error	Problem	Solution
Display	No display when pressing power button	Ensure batteries are properly installed with correct polarity
		Replace batteries
Display	Display switches off	Check for low battery indicator; replace batteries
Display	Calibration Failure	Check for low battery indicator; replace batteries
E2	Measurement is below the range of the meter	Check readings in a different area
E3	Measurement is above the range of the meter	Check readings in a different area

Warranty

Triplett / Jewell Instruments extends the following warranty to the original purchaser of these goods for use. Triplett warrants to the original purchaser for use that the products sold by it will be free from defects in workmanship and material for a period of (1) one year from the date of purchase. This warranty does not apply to any of our products which have been repaired or altered by unauthorized persons in any way or purchased from unauthorized distributors so as, in our sole judgment, to injure their stability or reliability, or which have been subject to misuse, abuse, misapplication, negligence, accident or which have had the serial numbers altered, defaced, or removed. Accessories, including batteries are not covered by this warranty

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