

Introduction

The CO71 is used to monitor Carbon Monoxide (CO) levels in commercial and residential living spaces, warehouse operations, combustion engine repair facilities, public facilities and any other indoor areas where people may work or live. The full-featured, compact design of the CO71 allows for easy use in most any working environment.

Features include

- One button On with Auto Zero
- Measures from 0 to 999 PPM CO
- Captures maximum value
- Preset Alarms
 - Visual three color LED
 - Audible tone
- Data Hold
- Back lit display
- Low Battery Indication



WARNING!

This instrument should only be used by trained and competent persons, after due considerations of any risks involved.



Carbon Monoxide is life threatening even at relatively low concentrations. Be sure you understand the risks before investigating potential leaks.

Instructions

ON/OFF (O button)

The CO71 is operated by a single button for ON and OFF. It is designed for use in ambient air, ranging in temperature from 32 to 104°F (0 to 40°C). When the unit is switched ON (Only switch ON outdoors or where no CO is present) it automatically zeros in 50 seconds. During countdown the display shows time remaining as two digits.

Turn ON countdown



When the countdown reaches 00 the meter will set its sensor to zero and display CO concentration using three digits.

Normal display CO PPM



Hold down the ON/OFF key to switch the meter OFF, the display will show a single digit and count down for 9 seconds.

Turn OFF countdown



If turned off accidentally, press the button again to cancel.

Note: *The meter will not automatically shut off. This is to avoid interruption during a test. To conserve battery life, be sure to turn off your CO71 when not in use.*

MAX button



Maximum value display

Press MAX to display the highest reading detected while the meter is switched ON.

HOLD button



Holds value when button is pressed

Freezes the display with the CO reading at the time the HOLD button is pressed. Press again to display current value.

Visual Indicator

The LED on the top of the CO71 lights and changes color when CO levels increase or decrease.

OFF:	0-1 PPM
GREEN:	2-9 PPM
YELLOW:	10-34 PPM
RED:	35 PPM or higher

These values are based on environmental and health standards as listed in table 1.

Checking For CO

Note: *Must ensure that the sensor grille at the rear of the instrument is free from obstruction. A quick instrument check can be performed by smoke from a blown out match. Let smoke enter the sensor grille. This will cause the indicated CO level to increase.*

Concentration of CO in Air	Inhalation Times and Toxic Symptoms*
9 ppm	The maximum allowable concentration for short term exposure in a living area according to ASHRAE.
35 ppm	The maximum allowable concentration for continuous exposure in any eight hour period industry according to MIOSHA.
200 ppm	Maximum concentration allowable in any 15 minute period according to OSHA. Slight headaches, fatigue, dizziness, nausea after 2 to 3 hours.
400 ppm	Frontal headaches within 1 to 2 hours, life threatening after 3 hours. Maximum allowable limit in flue gas according to EPA and AGA.
800 ppm	Dizziness, nausea and convulsions within 45 minutes. Unconsciousness within 2 hours. Death within 2 to 3 hours.
1,600 ppm	Headache, dizziness and nausea within 20 minutes. Death within 1 hour.
3,200 ppm	Headache, dizziness and nausea within 5 to 10 minutes. Death within 30 minutes.
6,400 ppm	Headache, dizziness and nausea within 1 to 3 minutes. Death within 10 to 15 minutes.
12,800 ppm	Death within 1 to 3 minutes.

**The effects can vary depending on size, age, sex and health. UEi is not liable for the accuracy of this information.*

(Table 1)

Audible alarm

An audible alarm will sound if 35 PPM CO (or greater) is detected. The alarm frequency will increase with higher concentrations. Check the LCD display for actual level. While the alarm is sounding the unit can not be turned off.

Back-Light

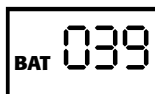
To activate the back-light press the **ON/OFF** key quickly once. Do not hold down the key or the unit will switch off.

To turn off the back-light press the **ON/OFF** key quickly again.

Note: Using the back-light decreases battery life.

LOW BATTERY INDICATION

Low battery indicator



If the battery voltage falls below a pre-set level the symbol **"BAT"** appears in the display. Do not use the instrument when this symbol is present. Replace the battery immediately.

Troubleshooting

If the display fails to stabilize at around zero within a few minutes this may indicate an expired sensor or a sensor that has been exposed to excessive levels of CO. If the symptom persists seek advice from an approved service center.

Always check for correct operation before each use. Use a known source of CO (e.g. a smoking match stick or a recently extinguished flame) taking care to act in a safe manner and not to expose the CO71 sensor to extreme temperatures or CO concentration. If the unit does not change as expected, return the unit to UEi or an approved service center.

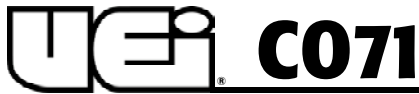
If during use, you detect CO leaks, be sure you know the appropriate actions to take to protect yourself and others. Before switching off the instrument always expose it to fresh air until the reading falls below 5 PPM. Note that the readings fall much more slowly than they rise so you may need to wait three minutes or longer.

Specifications

Range:	0-999 ppm
Resolution:	1 ppm
Accuracy:	±(3% of reading + 1 ppm)
Audible Alarm:	Preset at 35 ppm
Visual Indication:	LCD and LED
Battery:	9V alkaline (NEDA 1604)
Ambient Temperature:	32 - 104°F (0 - 40°C)

No user serviceable parts. Re-calibrate every 12 months.

Check for correct operation as described in this manual before every use.



Carbon Monoxide Detector

Limited Warranty

The C071 is warranted to be free from defects in materials and workmanship for a period of three years (one year warranty on sensor) from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss. A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge. Return the unit postage paid and insured to:

1-800-547-5740 • FAX: (503) 643-6322

Service: (800) 308-7709

www.ueitest.com • Email: info@ueitest.com

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