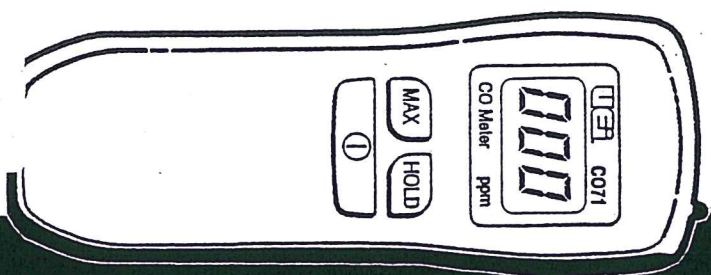


CO71 INSTRUCTION MANUAL



WHEN QUALITY MATTERS



8030 SW Nimbus
Beaverton, OR 97008

In Canada:

Yonacover: #150 13751 Verdun Pl. - Richmond, BC V6V 1W5
Phone: (604) 278-4511 - **Fax:** (604) 278-8299
Email: info@ynl.ca - www.istest.bc.ca
Toronto: 5780 Timberlea Blvd., Ste. 204 - Mississauga, Ont. L4W 4W8
Phone: (905) 238-6760 - **Fax:** (905) 238-5117
Email: hi@direct.com - www.istest.bc.ca

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CO71:MAN 1000

8030 SW Nimbus
Beaverton, OR 97008
www.uetest.com • Email: info@uetest.com



AUDIBLE ALARM

The instrument is pre-set with an alarm at 35 PPM. If this level is exceeded an audible tick will sound. The tick rate will increase with higher concentrations. Check the LCD display for actual level. While the alarm is sounding the unit can not be turned off until the level has dropped below 35 PPM.

BACK-LIGHT

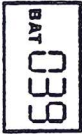
To activate the back-light press the ON/OFF key quickly once. Do not hold down the key or the unit will switch off.

To turn off the back-light press 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 a defective 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 lit cigarette or a gas flame) taking care to act in a safe manner and not to expose the CO71 sensor at too high a temperature or CO concentration. Do not use engine exhaust to verify operation. The amount of CO in engine exhaust is extreme compared to the range of your instrument, and could damage the sensor. If the unit does not change as expected, return the unit to the 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.

INTRODUCTION

Thank You!

You have purchased a state-of-the-art instrument from UEI, designed to help you do your job better and more efficiently. Please take time to read this manual to familiarize yourself with your CO71's capabilities before using.

Features of the CO71

- One button On with Auto Zero
- Measures from 0 to 999ppm
- Captures maximum value
- Preset Alarms

Visual three color LED

Audible increasing tick rate

- Data Hold
- Back lit display
- Low Battery Indication
- Three Year Limited Warranty

WARNING

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



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

DANGER

INSTRUCTIONS FOR USE

ON/OFF <O/I buttons>

The CO71 is operated by a single button for ON and OFF.

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, make 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 pressed**

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

VISUAL INDICATOR

This is the LED located on the top of the meter. At different CO concentrations the LED changes color to give visual warning:

- 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.

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, according to federal law.
200 PPM*	Maximum concentration allowable at any time 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.

* Exposure to this concentration and higher, the effects can vary depending on size, age, sex and health. UEI and Kane May are not liable for the complete accuracy of this information.

CO71 SPECIFICATION

Range:	0-999 PPM
Resolution:	1 PPM
Accuracy:	±(3% of reading + 1 ppm)
Audible alarm:	Presel at 35 PPM
Visual indication:	LCD and LED.
Battery:	9V Alkaline (NEDA 1604)
Ambient temp:	32 - 104 F (0-40C)

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

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

WARRANTY AND SERVICE

Warranty

Your CO71 is warranted to be free from defects in material and workmanship for a period of three years from the date of purchase (One year on CO sensor). If within this warranty period your instrument should become inoperative from such defects it will be repaired or replaced at UEI's option. This warranty does not cover damage resulting from failed batteries, consequential damage from failed batteries, misuse (including sensor damage by exposure to excessive temperatures or gas concentration), abuse, alteration, tampering, neglect, or improper maintenance. Proof of purchase is required for warranty repairs. This warranty gives you specific legal rights. You may have other rights that vary from state to state.

Service

Service covered under warranty will be provided at no charge (proof of purchase required). Instruments out of warranty will be repaired, (when repairable) for a service charge. Return the unit postage paid and insured to:

UEI Service Department

8030 SW Nilmbus
Beaverton, OR 97008

