TROUBLESHOOTING

• **Power on but no display**

  a) Make sure the batteries are installed properly.
  b) Replace batteries and try again.

• **Display disappears**

  Check whether the low battery indicator shows before display disappears. If so, replace batteries.

• **Calibration failure**

  a) Check if the low battery indicator shows before calibration. If so, replace batteries and try again.

  b) Make sure the standard gas is correct.

• **E 2.**: Underflow error.

• **E 3.**: Overflow error.

• **E 4.**: Incorrectly zeroed.

• **E 31.**: Internal error, return the detector to the dealer for repairing.

• **E 33.**: Measurement circuits failure, return the detector to the dealer for repairing.

• **E 35.**: Self-Test failure. Turn on the detector again in another area free of CO. Sensor failure. Return the detector to the dealer for repairing.

SPECIFICATIONS

• CO range: 0~999ppm

• Resolution: 1 ppm

• Accuracy: ±20% at 0~100ppm
  ±15% at 100~500ppm
  at (20°C±5%, 50°F±20%RH)

• Battery: 3 AAA alkaline.
  Battery life is 250 hours when backlight off and 35 hours when backlight on.

INCLUDED

• UTLC11
• AAA alkaline battery x 3
• Operation manual
• Wrist Strap
• Carrying Pouch

GENERAL MAINTENANCE

Warning ⚠ To avoid personal injury or damage to the detector, DO NOT wet the inner parts of the detector. Regularly clean the detector case with damp cloth and a small amount of detergent. Do not use abrasives or chemical solvents.

WARRANTY

The UTL Carbon Monoxide Detector (UTLC11) is warranted to be free from defects in materials and workmanship for a period of one year from the date of purchase. This warranty does not cover fuses, disposable batteries, or damage from drops, neglect, misuse, alteration, contamination, or abnormal conditions of operation or handling. Resellers are not authorized to extend any other warranty on behalf of UTL. To obtain service during the warranty period, contact your nearest UTL service center directly. For full warranty details visit us online www.utltest.net.

Para la versión en español de este manual por favor visite www.utltest.net

Pour une version française du manuel de l'utilisateur s'il vous plaît visitez www.utltest.net

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Carbon Monoxide Detector
UTLC11

Instruction Manual
English

CO

UTL   UTLC11

Carbon Monoxide Detector 0-999 ppm

1 yr. warranty

CE

PROFESSIONAL VALUE

INTRODUCTION

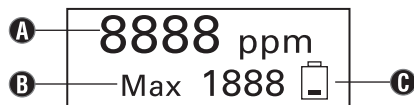Please read the manual completely before using the UTLC11 Carbon Monoxide Detector.

Features:
- Adjustable CO warning level
- Dual digital display
- Backlight for operating in dark area
- Low battery indicator
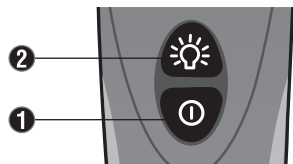- Auto power off function

CO levels and its effect

ppm	Symptoms and applicable standard
0-1	Normal background levels
9	Maximum indoor air quality level: Maximum allowable concentration per ASHRAE Residential standards 62-1989 for living area.
25	Maximum limit 8 hrs. of continuous exposure per California OSHA workplace standards.
35	Maximum 8 hrs. average exposure level per US OSHA workplace standards.
50	Maximum concentration for continuous exposure in any 8 hrs. average level per OSHA standards.
100	Remove employees from enclosed space if the CO concentration exceeds 100ppm per OSHA exposure limit.
200	Mild headache, fatigue, nausea and dizziness in 2-3 hrs.
400	Frontal headache, life threatening after 3hrs. Maximum concentration in flue gas per the US EPA and AGA standards.
800	Dizziness, nausea, convulsions, death in 2-3 hrs.
1600	Loss of consciousness in 1 hr., death in 1-2 hrs.

CONTROLS AND INDICATORS

LCD display

A. Primary display: Current CO value.
B. Secondary display: Max. CO value.
C. ⬚ : Low battery indicator.

Start Up/ Set Up
- Verify that you are in an area with fresh air, free from any CO
- Press button ❶ to power the unit on.
  ° Detector enters Self-Test mode.

Note: *Display blinks for 15 seconds showing the Alarm Threshold and Ambient Temperature. An audible beep will sound when the Self-Test is complete, and the display will change to real-time CO level and CO Max*

Setting Alarm Threshold
- With the meter off, press and hold button ❶.
  ° The display will cycle through available alarm levels of 25, 30, 35, 45, 50, 70, 100, 200.
- Release button ❶ when the desired alarm threshold is displayed
  ° The meter will enter the Self-Test mode

Setting Temperature Units
(displayed during Self-Test mode)
- Press button ❶ to power the unit on and enter Self-Test mode
- Press and hold ❷ button during self test
  ° Temperature units will switch from current scale to alternate scale (F or C)
- Release ❷ button, and wait for Self-Test to complete

Measure Mode
- Main display will automatically show CO levels
- Secondary display will automatically show the highest CO level measured.
- Press ❷ to turn backlight display on or off.
- Reset MAX CO Level on the Secondary display: Press & Hold ❷.

Calibration Mode
The following steps must be done in an area with fresh air.

Zero Calibration
1. Start with the detector off
2. Press and hold ❶ and ❷ buttons
   a. LCD will show PPM blinking and "0" on the lower display
3. Leave detector in area free of any CO for approximately 10 minutes
   a. Disregard any numeric display on the upper display
   b. Do not use cell phones or computers in the area near calibration procedure. High EMI can interfere with the calibration procedure.
4. The Zero calibration is complete when the display stops blinking

Span Calibration (100ppm or 500ppm)
Note: *Perform the following steps only if you have calibration gas at 100ppm or 500ppm CO, and a proper delivery method*

1. Enter calibration mode as done in Zero Calibration procedure
2. Press and hold ❷ to select 100ppm or 500ppm span gas
3. Expose detector to gas for 15 minutes until display stops blinking
4. Verify displayed value is within tolerance
   a. If calibration is not done correct, erroneous values will be displayed. It is recommended to have the unit calibrated by an authorized facility familiar with CO gas detection.

Power Off
- Press & Hold ❶
- Auto Power Off will active after 15 minutes of non-operation, except during calibration mode.

OPERATING NOTICE

1. Keep the detector from electromagnetic interference(EMI) which may cause erratic readings.
2. Recovery time is required when detector exposed to high level CO. The longer the exposure, the longer recovery time is needed.
3. Self-Test after power on is to test the sensor and circuit condition.