PRO-TECH®

8505

Battery Powered Commercial CO Monitor

OWNER'S MANUAL

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1. IMPORTANT MESSAGE AND WARNING

⚠ **IMPORTANT!** **READ ALL INSTRUCTIONS BEFORE INSTALLATION AND SAVE THIS MANUAL FOR FUTURE REFERENCE.**

⚠ **CAUTION!** **THIS MONITOR WILL ONLY INDICATE THE PRESENCE OF CARBON MONOXIDE GAS AT THE SENSOR. CARBON MONOXIDE GAS MAY BE PRESENT IN OTHER AREAS. THIS CARBON MONOXIDE MONITOR IS DESIGNED TO DETECT CARBON MONOXIDE GAS FROM ANY SOURCE OF COMBUSTION. IT IS NOT DESIGNED TO DETECT SMOKE, FIRE OR ANY OTHER GAS.**

⚠**WARNING!** **A DISCONNECTED OR LOW VOLTAGE BATTERY WILL RENDER THIS UNIT INOPERATIVE.**
Do not try to repair this CO monitor yourself. Refer to the instructions in SECTION 14 for service.

⚠**WARNING!** IF YOU HAVE BEEN AWAY FROM THE BUILDING AND RETURN TO FIND THE ALARM(S) SOUNDING, DO NOT ENTER THE BUILDING. CALL THE FIRE DEPARTMENT FROM ANOTHER LOCATION. *DO NOT RE-ENTER BUILDING FOR ANY REASON UNTIL YOU HAVE BEEN ASSURED THAT IT IS SAFE TO DO SO.*

⚠**WARNING!** The Pro-Tech® 8505 Commercial CO Monitor is not designed for use in vehicles or unconditioned spaces, and is not listed to the residential UL 2034 standard. This monitor is intended for use within commercial buildings that are heated and air conditioned between 40°F to 100°F.

2. WHAT TO DO WHEN THE ALARM SOUNDS

If alarm signal sounds (the red LED will flash and the alarm will sound 4 short beeps every 6 seconds):

1. **Operate** TEST/RESET/MUTE **button to temporarily silence alarm;**

2. **Immediately move to fresh air - outdoors or by an open door or window. Check that all persons are accounted for. Do not re-enter the premises or move away from the open door/window until the premises have been aired out, and your monitor remains in its normal condition;**

3. **After following steps 1 and 2, if the alarm reactivates within a 24 hour period, repeat steps 1 and 2 and call a qualified appliance technician, if you have not already. Fuel burning equipment, appliances and vehicles must be inspected for proper operation, and the source of CO must be investigated. If problems are identified during this inspection, have the equipment serviced immediately. Note any combustion equipment not inspected by the technician, and consult the manufacturers' instructions, or contact the manufacturers directly, for more information about CO safety and this equipment. Make sure that motor vehicles or forklifts are not, and have not been, operating in an attached garage or warehouse, or adjacent to the building.**

3. INFORMATION ABOUT CARBON MONOXIDE

WHAT IS CARBON MONOXIDE?
Carbon monoxide (CO) is a highly toxic, invisible, odorless, tasteless gas.

HOW IS CO GENERATED?
Carbon monoxide is a byproduct of the incomplete combustion of fuel. Faulty ventilation of furnaces, space heaters, boilers, water heaters and kitchen appliances are a major cause of high CO levels in a building. Automobile, forklift and small engine exhaust are another potential source of CO.

HOW DOES CO POISON PEOPLE?
The human body depends on oxygen for the burning of fuel (food) to provide us with the energy that allows our cells to live and function. Oxygen makes up approximately 21% of the atmosphere and enters our lungs when we breathe. In our lungs the oxygen combines with the hemoglobin in the blood (oxyhemoglobin) and is carried in the blood stream throughout the body where it releases oxygen to the cells.

Carbon monoxide is dangerous because it bonds more tightly to the hemoglobin (carboxyhemoglobin, COHb) than oxygen does. When CO combines with hemoglobin, the hemoglobin's ability to combine with oxygen is lost. As the COHb concentration rises, people become nauseous, unconscious and ultimately die (see below).

WHAT ARE THE SYMPTOMS OF CARBON MONOXIDE POISONING?
Many people often confuse carbon monoxide poisoning with the flu; the initial symptoms being very similar. Different concentrations of CO over various lengths of time can cause different symptoms.
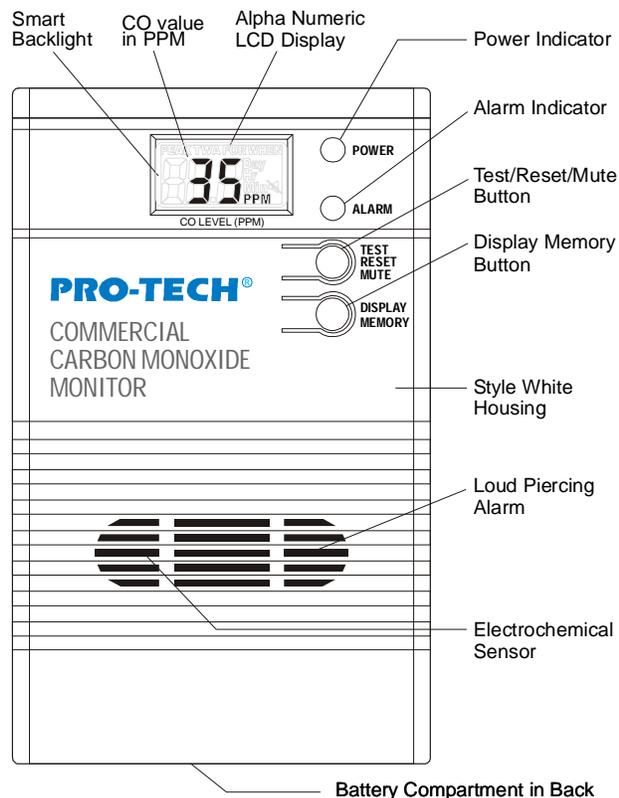
Many cases of carbon monoxide poisoning indicate that while the victims were aware that they were not well, they were too disoriented to save themselves by either calling for assistance or exiting the building. Also, due to size, small children and pets are generally the first affected.

The following are the symptoms related to *CARBON MONOXIDE POISONING.* Discuss them with all persons that may be affected.

MILD EXPOSURE:	Slight headaches, nausea, vomiting, running nose, sore eyes, fatigue (often described as "Flu-like" symptoms).
MEDIUM EXPOSURE:	Severe throbbing headache, dizziness, drowsiness, confusion, fast heart rate.
EXTREME EXPOSURE:	Unconsciousness, convulsions, cardiorespiratory failure, brain damage, death.

4. CO MONITOR FEATURES

- Battery Powered Commercial CO Monitor
- Accurate and Reliable Electrochemical Sensor
- Integrated Filter for Removing Nuisance Gases
- Samples for Carbon Monoxide Every Second
- Alpha Numeric LCD Readout with "Smart" Back Light
- Continuous Display of Current CO Levels Detected from 9 to 999 PPM
- Records and Displays Peak CO Level with Duration and When Occurred
- Calculates and Displays 8-Hour Time-Weighted Average (TWA) Concentration
- Stores 30 Days of Data
- Audible and Visual Alarm Signals
- Self Diagnostic Circuitry and Sensor Life Monitor
- Complies with ACGIH, Cal/OSHA, NIOSH and OSHA Workplace Exposure Limits
- One Year Limited Warranty

Alpha Numeric LCD Display

A.	**PEAK**	Highest CO level detected
B.	**TWA**	Average CO level detected for previous 8 hours
C.	**FOR**	Duration of Peak CO in Hr. and Min.
D.	**WHEN**	How long ago Peak detected, in Day, Hr, and Min.
E.	**Day Hr Min**	For how long or how long ago event occurred
F.	▭	Low Battery Voltage icon
G.	▨	Muted Alarm icon
H1.	**888**	3-digit display for CO level and event timing
H2.	**Err**	Monitor malfunction signal. Service required
H3.	**End**	End of sensor life signal. Replace monitor
H4.	**CLr**	Monitor's memory has been cleared

SPECIFICATIONS

- Commercial Carbon Monoxide Monitor
- Battery Powered: 9VDC
- Sensor Type: electrochemical
- Sample Frequency: every second
- Display: continual LCD readout of actual CO levels detected from 9-999ppm
- Display Resolution: 1ppm
- Display Accuracy: +/-5% or 5ppm, whichever is greater*
- Threshold Limit Value (TLV) alarm time: 20 ppm within 7 hrs TWA of detection
- Recommended Exposure Limit (REL) alarm time: 30 ppm within 3 hrs TWA of detection
- Permissible Exposure Limit (PEL) alarm time: 45 ppm within 90 minutes TWA of detection
- Short-Term Exposure Limit (STEL) alarm time: 90 ppm within 15 minutes TWA of detection
- Ceiling Alarm: 180 ppm at any time detected
- Peak Level Memory: records actual peak CO level detected, duration, and when occurred
- Peak Level Memory History: prior 30 days
- Time-Weighted Average (TWA): calculates average CO concentration for prior 8 hours
- Display Backlight: automatic for alarm; manual for memory and testing functions
- Power On Signal: flashing green LED
- Audible Alarm Signal: 85dB at 10 feet; 4 short beeps every 6 seconds for 5 minutes, and thereafter 4 short beeps every minute
- Visual Alarm Signal: Red LED flashes in sync with audible alarm signal
- Mute Button: silences audible signal for up to 5 minutes, red LED continues blinking 4 times per minute
- Test Functions: self diagnostic circuitry and manual test button
- Low Battery Signal: low battery icon, green LED blinks once/min, one chirp/min
- Malfunction Signal: displays $\boxed{Err}$, red LED blinks twice/min, two chirps/min
- Sensor Expiration Signal: displays $\boxed{End}$, red LED blinks once/min, one chirp/min
- Storage Temperature and Humidity: 30°F to 120°F @ 30% ~ 95% RH
- Operating Temperature and Humidity: 40°F to 100°F @ 10% ~ 90% RH
- Unit Weight: 8 oz w/battery
- Unit Dimensions: 5-9/16"h x 3-7/16"w x 1-5/16"d
- Color: White
- Life Expectancy: Two years
- Warranty: One year limited warranty

The accuracy of the display is an estimate for the first year only. The accuracy may also be affected by environmental conditions and other circumstances beyond manufacturer's control.

This fixed CO monitor is designed to activate audible and visual alarm signals before the immediate area reaches the Threshold (TLV), Recommended (REL), Permissible (PEL), or Short-Term (STEL) Time Weighted Average (TWA) carbon monoxide exposure limits established by the American Conference of Governmental Industrial Hygienists (ACGIH), National Institute for Occupational Safety and Health (NIOSH), and U.S. Occupational Safety and Health Administration (OSHA). Workers who are known to be at high risk to CO exposure should also wear personal gas monitors.

5. RECOMMENDED LOCATION OF CO MONITORS

CO poisoning can happen anywhere in a building. At the minimum, CO monitors should be located on every level of the building, near the persons who may be potentially affected by CO poisoning, and where workers can hear any alarm.

More than one CO monitor may be required within different areas of the building. A space which contains fuel burning equipment, and areas and rooms adjacent to this space or any parking garage, should also have a CO monitor installed.

If the monitor is installed in a hallway and any office doors are kept closed, install a CO monitor in each of these rooms. If the monitor is installed in a large open area, one monitor should be installed for every 1000 square feet of vertically unobstructed space.

A monitor should also be installed near each exit from the building to alert employees of a CO alarm condition prior to entering.

Mount CO monitors onto an interior wall about three inches above eye level for the best view of the display readout.

CO detection is best achieved by installing monitors in all rooms and areas of building.

DO NOT install monitor within 5 feet of combustion equipment.

DO NOT install monitor on any exterior wall, or within 1 foot of exterior door or window.

Conditions which can result in CO production or exposure:
1) Excessive spillage or reverse venting of fuel burning appliances caused by outdoor ambient conditions, such as:
    i) Wind direction and/or velocity, including high gusts of wind. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
    ii) Negative pressure differential resulting from the use of exhaust fans.
    iii) Several fuel burning appliances competing for limited internal air.
    iv) Vent pipe connections vibrating loose from furnaces, boilers or water heaters.
    v) Obstructions or unconventional vent designs which amplify the above situations.
    vi) Poorly designed or maintained chimneys and/or vents.
2) Extended operation of unvented fuel burning devices.
3) Temperature inversions which can trap exhaust gases near the ground.
4) Truck, car or forklift operating or idling in an open or closed attached garage or warehouse, or near a building.

6. LOCATIONS TO AVOID

NEAR COOKING APPLIANCES: To avoid nuisance alarms and grease build up, which may cause monitor failure, do not install monitor within five feet of cooking appliances.

WITHIN FIVE FEET OF FURNACE, BOILER, SPACE HEATER, OR WATER HEATER: These devices often spill out CO when they first turn on.

IN DUSTY AREAS: Dust can build up on the monitor and cause failure to alarm.

IN CLEANING SUPPLY ROOMS: Cleaning chemicals and painting supplies may cause nuisance alarms.

IN VERY HOT OR COLD AREAS: Do not install the monitor onto an exterior wall, or in unconditioned spaces or areas which are below 40ºF (4.4°C) or above 100ºF (37.8°C).

IN HAZARDOUS LOCATIONS: This monitor is not suitable for installation in a hazardous location, as defined in the National Electrical Code.

7. INSTALLATION INSTRUCTIONS

NOTE: REVIEW SECTION 5, ***RECOMMENDED LOCATIONS OF CO MONITOR*** AND SECTION 6, ***LOCATIONS TO AVOID,*** PRIOR TO INSTALLING YOUR CO MONITOR.

The proper power for the Pro-Tech® 8505 commercial CO monitor is a 9V battery.

Constant exposure to high or low temperatures or humidity may reduce battery life.

BATTERY INSTALLATION AND REPLACEMENT:

Slide down and remove battery door, and attach a new 9 Volt alkaline battery (Duracell MN1604 or Energizer MAX 522) to the battery cable. Battery must snap firmly onto both connectors.

Place the battery into the battery compartment, and slide the battery door upward and over the compartment until the door latches firmly in place.

Press the TEST/RESET/MUTE button to verify activation. (See SECTION 8)

MOUNTING INSTRUCTIONS:

After selecting the proper location as described in SECTION 5, drive one screw into the wall about three inches above eye level, and an optional second screw 3 to 3⅛ inches directly below it. Leave the screw-heads about ¼ inch out from the wall.

Hang monitor onto the top screw-head and gently pull down to secure. Slide bottom of monitor from right to left until it seats firmly onto the lower screw, if installed.

After installation, **TEST** your CO monitor by pressing the TEST/RESET/MUTE button for two seconds. (See SECTION 8)

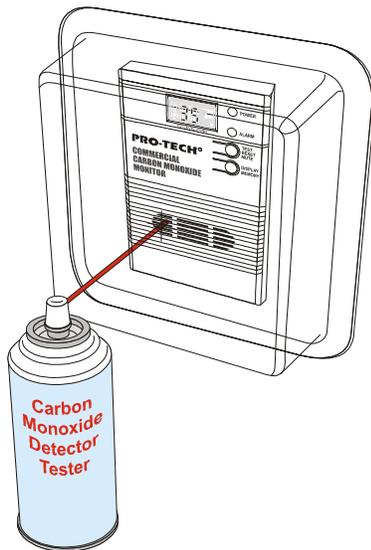Be sure that the monitor is not obstructed by furniture, equipment, etc.

8. TESTING

TEST THE CO MONITOR *WEEKLY* TO ENSURE PROPER OPERATION:

To test your monitor for proper operation, press the TEST/RESET/MUTE button for 2 seconds. The red LED will flash and the monitor's horn will beep 4 times, remain silent for 5 seconds, and then beep 4 times again if horn and electronic circuitry are working properly. The current CO level detected will also be displayed.   If the unit is already in the "service" condition, the monitor will not sound while testing, LCD will display $\boxed{Err}$, and monitor must be serviced immediately (See SECTION 14).

Erratic, no or low sound coming from your CO monitor may indicate a malfunctioning unit, and it should be returned for service (See SECTION 14).

In addition to the weekly test, the Pro-Tech® 8505 CO monitor should be tested with a CO Detector Testing Aerosol at least once per year.

Place an enclosure over the monitor, and follow the Aerosol's instructions to perform the CO gas test correctly. The monitor should activate the visual and audible alarm signals within 1 minute, and display about 500 ppm, if the proper amount of CO gas is injected for about 5 seconds.

If too much CO gas is injected, the monitor will trigger the trouble signal (2 short beeps, **SERVICE** red LED blinks twice, and LCD displays Err). Remove the enclosure from the CO monitor and purge the CO with fresh air for a few minutes until the monitor returns to normal (**POWER** green LED flashes once every minute, and LCD displays 0ppm), then repeat the test with a lesser amount of CO gas.

When the monitor's alarm signals are activated (**ALARM** red LED flashes in sync with 4 short beeps every 6 seconds), remove the enclosure from the CO monitor, and press the TEST/RESET/MUTE button to silence the horn. When the LCD reads 0ppm, press the DISPLAY MEMORY button, and, while the test data is being displayed, press the TEST/RESET/MUTE button to erase the record. The monitor is now verified to be responsive to CO gas.

9. OPERATION

OPERATION:
The CO monitor automatically performs a start-up test once a battery is installed.

The monitor should display all words, numbers and symbols , and flash the green LED every second, during the 3 minute test. When the test is complete, the monitor is fully operational, the display should read 0ppm, and the green LED should blink once per minute.

LOW BATTERY CONDITION:
When the battery voltage drops below an acceptable level, the monitor will chirp once per minute, the green LED will blink once per minute, and the low battery voltage symbol will appear on the LCD display. Replace the battery immediately in order to provide uninterrupted protection. Please see SECTION 7 for information regarding battery replacement.

SERVICE CONDITION:
The internal microcontroller continuously monitors the sensor and other critical components. If an internal failure of any of these components should occur, the CO monitor will double chirp once per minute, the red LED will blink twice per minute, and

$\boxed{Err}$ will appear on the LCD display. The trouble condition indicates a problem with the unit, and it will not alarm if exposed to CO. See SECTION 14 for service information.

SENSOR LIFE MONITOR:
The electrochemical sensor has a life expectancy of 2 years, however, the monitor's CO readings will decrease in accuracy after the first year. A microcontroller counts the total time that the CO monitor is under power. After 2 years, the "Sensor End-of-Life" signal will activate, indicating that the sensor life has expired. The CO monitor will chirp once per minute, the red LED will blink once per minute, and $\boxed{End}$ will appear on the LCD display. When the sensor life expires, the monitor may still work for a period of time, but it may not alarm when exposed to CO. It is recommended that you replace the monitor annually, but, once the sensor life expires, you must replace the monitor immediately.

ALARM CONDITION:
When CO gas is detected at a level and duration specified in SECTION 4, the monitor will alarm and the red LED will flash. The monitor will display the current CO level detected, sound 4 short beeps every 6 seconds for 5 minutes, and thereafter 4 short beeps every minute until the $\boxed{\text{TEST/RESET/MUTE}}$ button is pressed and the CO level detected drops below 20 ppm. The red LED flashes in synchronous with the horn.

RESET/MUTE ALARM:
Once the CO monitor activates an alarm, it will not automatically reset/mute itself. Press the $\boxed{\text{TEST/RESET/MUT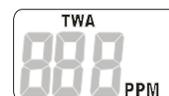E}}$ button once to temporarily silence the monitor for 5 minutes. The muted alarm symbol 🔇 will be displayed, the red LED will blink 4 times per minute, and the current CO level will be displayed. If the monitor continues to detect CO levels of 20 ppm or more, the audible alarm signal will automatically reactivate within 5 minutes. If the CO level drops below 20 ppm, the audible alarm signal will not reactivate, red LED will stop blinking, and muted alarm symbol 🔇 will no longer be displayed.

DISPLAY PEAK CO EXPOSURE RECORD:
To manually display the highest CO level detected, press the $\boxed{\text{DISPLAY MEMORY}}$ button for 2 seconds. The LCD will display the recorded data in the following order:

1. The highest (peak) CO level detected within last 30 days from 9 to 999 PPM.

2. Total length of time, in hours and minutes, highest CO level was detected over last 30 days, including levels within 10% of the peak.

3. How many days, hours and minutes ago a CO level within 10% of the peak was last detected.

4. The Time Weighted Average (TWA) concentration of CO detected over the previous 8 hours.

The monitor maintains the 30 most recent days of peak CO level history, and the most recent TWA value. To manually erase the record, press the DISPLAY MEMORY button once, and while the readings are being displayed, press TEST/RESET/MUTE button once. The monitor will sound one short beep and `⌈⌊⌊⌐⌉` will appear on the LCD display. Disconnecting the battery will not erase memory.

LCD DISPLAY FUNCTION:
In normal operation, the LCD screen will display the current CO level detected from 9 to 999ppm, and update the detected value every 1 second. The number 0ppm will be displayed if less than 9ppm CO is detected. The display accuracy may be affected by environmental conditions and other circumstances beyond manufacturer's control.

LCD BACKLIGHT FUNCTION:
In normal operation, the LCD backlight is turned off to preserve battery life. The backlight will automatically turn on for 5 minutes when alarm is activated. The backlight will also turn on when the TEST/RESET/MUTE button is pressed to test the monitor, or the DISPLAY MEMORY button is pressed to read the peak CO level and TWA record. The backlight will automatically turn off when the TEST or DISPLAY MEMORY functions are completed.

10. MAINTENANCE: CLEANING YOUR MONITOR

You can clean your CO monitor by using a vacuum cleaner brush to vacuum around the openings on the CO monitor. The outside of the CO monitor can be wiped with a soft cloth slightly dampened with water only.

AFTER CLEANING, TEST YOUR CO MONITOR TO MAKE SURE THAT IT IS WORKING PROPERLY.

DO NOT PAINT ON OR NEAR THE ALARM: The paint will block the vents and affect the alarm function.

DO NOT SPRAY AIR REFRESHENER, CLEANING SUPPLIES, OR INSECT KILLER ON OR NEAR THE ALARM: Certain kinds of aerosol chemicals will damage the sensor and cause improper operation. The area must be well ventilated when using cleaning supplies or similar contaminants.

11. LIMITATIONS OF CARBON MONOXIDE MONITORS

Carbon monoxide monitors are devices that can provide an early warning of the presence of CO gas at a reasonable cost. However, monitors have sensing limitations and may not always sound a warning in the presence of CO. The monitor will not operate if the battery power is low or dead. CO monitors must be tested regularly to ensure that they are receiving power and operating properly. Carbon monoxide monitors cannot sense CO that does not reach the monitor, and therefore CO monitors may not detect CO which is in another area of the building. Furthermore, if the CO monitor is located on a different level of the building or on the other side of a closed

door, it may not alert everyone at risk. The use of drugs or alcohol may impair one's ability to hear the alarm. If you have a multi-level building, install CO monitors on each level. If the monitor is installed in a hallway and any office doors are kept closed, install a CO monitor in each room. If the monitor is installed in a large open area, one monitor should be installed for every 1000 square feet of vertically unobstructed space.

This monitor is designed to alert employees that may be exposed to CO in their workplace by the faulty ventilation of furnaces, space heaters, boilers, water heaters, kitchen appliances, etc. Wall-mounted monitors are not a substitute for personal monitoring where worker CO exposure is a known occupational hazard.

Although CO monitors can help save lives by providing an early warning to the presence of carbon monoxide, they are not a substitute for an insurance policy. Property owners, leaseholders and renters should have adequate insurance to protect everyone's health, lives and property.

12. GOOD SAFETY HABITS

DEVELOP AND PRACTICE A PLAN OF ESCAPE:

Make a floor plan indicating all doors and windows and at least two escape routes from each room. Second story and higher windows may need fire escape built to local code.

Have a meeting to discuss your escape plan, and show everyone what to do in case an alarm sounds.

Determine a place outside the building where you can all meet if an alarm occurs.

Familiarize everyone with the sound of the alarm and train them to leave the building when they hear it.

Practice a CO and fire drill at least once every six months. Practice allows you to test your plan before an emergency. You may not be able to reach everyone. *It is important that they all know what to do.*

13. AUDIBLE AND VISUAL SIGNALS

Condition	LCD Readout	LEDs	Horn
Normal Operation	Displays "0ppm" continuously. Backlight is OFF	Green LED blinks once every minute	Silent
Alarm Activation	Displays current CO reading in PPM. Backlight turns ON for 5 minutes, and thereafter backlight turns ON when the horn sounds	Red LED flashes 4 times every 6 seconds in synchronous with horn	Beeps 4 times, pauses for 5 seconds. Repeats this pattern for first 5 minutes. Then pause time increases to 1 minute
Mute Alarm Audible Signal	Displays 🔇, and current CO reading in PPM. Backlight is OFF	Red LED blinks 4 times per minute	Silent
Testing Alarm	Displays current CO level detected. Backlight is ON while in testing sequence	Red LED flashes in synchronous with horn	Beeps 4 times, pauses for 5 seconds, beeps 4 times
Recall Peak CO Level	Displays the highest CO level detected within last 30 days from 9 to 999 PPM **PEAK 888 PPM**	Green and red LED are OFF while displaying the peak record.	Silent while displaying the peak record
	The total length of time the highest CO level was detected over last 30 days, including levels within 10% of the peak **PEAK FOR 888 Day Hr Min**		
	How long ago a CO level within 10% of the peak was last detected **PEAK WHEN 888 Day Hr Min**		
	The Time Weighted Average (TWA) concentration of CO detected over the previous 8 hours **TWA 888 PPM**		
Clear Peak Record	Displays **[Llr]** when record is cleared	Green and red LED are OFF	One short beep when record is cleared
Low Battery Power	Displays " **▢** " and current CO reading in PPM	Green LED blinks once per minute	Chirps once per minute
"End-of-Life"	Displays **[End]**	Red LED flashes once per minute	Chirps once per minute
Trouble/ Service	Displays **[Err]**	Red LED blinks twice per minute	Chirps twice per minute

14. SERVICE AND WARRANTY

IMPORTANT! SAFETY INSTRUCTIONS:
In the event of any malfunctions with the monitor, do not attempt to repair the unit. This product should be serviced by a qualified service technician. Return the monitor for service per instructions below.

ONE-YEAR LIMITED WARRANTY

The Pro-Tech® Commercial CO Monitor is manufactured in Canada under stringent ISO 9001 quality management practices. The manufacturer warrants that, for a period of one year from the date of purchase, this CO monitor will be free from defects in material and workmanship. The manufacturer, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or re-manufactured product or component.

If product is no longer available, replacement may be made with similar product of equal or greater value. This warranty is valid for the original end-user purchaser from date of initial purchase from authorized distributor, dealer or contractor, and is not transferable. Keep original sales receipt. Proof of purchase is required to obtain warranty service. Distributors, dealers or contractors selling Pro-Tech® products do not have the right to alter, modify or in any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: improper storage, negligent use or misuse of the product, use contrary to the operating instructions, operation in vehicles or unconditioned spaces (below 40°F or above 100°F), disassembly, or repair or alteration by anyone other than the manufacturer or an authorized service center. Further, the warranty does not cover acts of God, such as fire, flood, earthquakes, hurricanes and tornadoes.

The manufacturer shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited in duration to the duration of the above warranty. Some states or jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

Warranty Service:
If service is required, do not return the product to your supplier. Contact our U.S. manufacturer's representative at (800) 253-1529, Monday through Thursday, from 8 AM to 4 PM MST to obtain a Return Authorization (RA) number. Please have the model number, date of purchase, and serial number available when calling.

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