

STANDARD INFORMATION

Amendment 1: See updated Effective Date in blue below

Standard: UL 2034

Standard ID: Single and Multiple Station Carbon Monoxide Alarms [UL 2034:2024 Ed.5]

Previous Standard ID: Single and Multiple Station Carbon Monoxide Alarms [UL 2034:2017 Ed.4+R:23Aug2023]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: ~~June 3, 2027~~ **June 3, 2028**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes: Revisions to markings. Specific details of new/revised requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
	Info	MARKING
89	Info	General
89.1		<p>Markings shall comply with the following:</p> <p>a) The marking shall be in a contrasting color, finish, or equivalent. b) Unless the letter height is specified, all markings shall be at least 3/64 inch (1.2 mm) high. <u>c) The removal or opening of an enclosure cover or the removal of mounting screws, or an equivalent arrangement to view the marking is acceptable with the exception of the "do not paint" marking and 89.2(c).</u></p>
89.2		<p>The following markings are required to be on all alarms:</p> <p>a) Name or identifying symbol and address of the manufacturer or private labeler. b) Model number and date of manufacture. The date of manufacture shall be non-coded and in the format YEAR (in 4 digits), MONTH (in letters), and DAY (in 2 digits) located on the outside surface of the CO alarm. c) Identification of the product (carbon monoxide alarm shall be marked in contrasting color from the background on the face of the unit), lights, switches, and meters, regarding their function unless their function is obvious. The following message shall be located adjacent to the visual indicator for alarm: "Exit to fresh air." d) Maximum rating of fuse in each fuse holder. e) Identification of batteries by part number, manufacturer's model number or equivalent, located adjacent to the component. <u>f) Reference to the manufacturer's published instructions.</u> <u>g) Maintenance instructions, such as cleaning and battery replacement.</u> <u>h) Distinction between alarm, pre-alarm, end-of-life, and trouble signals on units employing these signals.</u> <u>i) Test instructions and frequency. Not less than once per week for battery-powered alarms and not less than once per month for other than battery-powered alarms.</u> j) If a manufacturer produces alarms at more than one factory, each such assembly shall have a distinctive marking to identify it as the product of a particular factory. k) The following warning shall be placed on the carbon monoxide alarm. The hazard symbol and letters used for the word "WARNING" shall be boldfaced type having a minimum letter height of 0.120 inch (3.05 mm). The minimum vertical spacing between lines of type shall be 0.046 inch (1.17 mm).</p>



CLAUSE	VERDICT	COMMENT
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Carbon monoxide (CO) is a colorless, odorless, poisonous gas. You can't taste, see, or smell CO, but it can kill in just minutes.

This alarm will sound in a 4-beep pattern if life threatening levels of CO are detected.

If the alarm sounds:

1) Immediately evacuate all occupants from the space and go outdoors to fresh air.

2) Call emergency responders (911 or fire department) for help; notify the building or vehicle owner, as necessary.


l) An alarm not intended to be painted in use shall be marked on the outer surface of the enclosure with the following or equivalent notice: "Do Not Paint" or the symbol below (min 1/2" in diameter. The letters shall not be less than 1/8 inch (3.2 mm) high. See the Paint Loading Test, Section 69.



m) For a battery operated alarm, the word "WARNING" and the following or equivalent marking shall be included on the unit: "Use Only Batteries Specified In Marking. Use Of A Different Battery May Have A Detrimental Effect On Alarm Operation." The letter height shall be a minimum of 1/8 inch (3.2 mm) for "WARNING" and 3/64 inch (1.2 mm) for the rest of the notice.

n) For an alarm employing a nonrechargeable standby battery the marking information described in 16.3 shall be in letters not less than 1/8 inch (3.2 mm) high.



CLAUSE	VERDICT	COMMENT
		<i>New clause added;</i>
89.3		The following or equivalent qualifying statement on a battery-operated alarm where battery operation, under other than normal room temperature conditions during the long term battery tests, is less than 12 months but not less than 6 months or less than 10 years for a sealed 10-year alarm must be marked on the alarm. "Constant exposures to high or low temperatures or high humidity may reduce battery life."
		<i>New clause added;</i>
		The following may be marked on the alarm or be included the manufacturer's published instructions:
89.4		a) For AC (mains powered) alarms: Electrical rating, in volts, amperes, or watts, and frequency. b) Correct mounting position if a unit is intended to be mounted in a definite position. Carbon monoxide alarms that comply with 68.5.2 shall include marking information that clearly indicates that the product is only intended for installation on the ceiling, or on the wall no more than 12 inches from the ceiling. c) Reference to a source for battery replacement. d) A battery-operated alarm that employs a battery trouble silence feature shall describe its operation. e) The sensitivity setting. The marked sensitivity shall be indicated by ppm and time.
		<i>New section added;</i>
		Marking Permanence
90		Markings affixed to a carbon monoxide alarm shall be sufficiently durable as to resist the deleterious effects of handling, cleaning agents, and the like, expected in the intended use. See standard for details.
	Info	INSTRUCTIONS
91	Info	General
		Each single and multiple station carbon monoxide alarm shall be provided with installation instructions which shall include the following information:
91.1		d) The hazard symbol  , the word "WARNING," and at least the following or equivalent information in an obvious and prominent manner, such as by being underlined, encircled, or printed in larger or different color type. The letters used for the word "warning" shall be boldfaced in a color that contrasts with the background and shall be a minimum size of 18 points or a minimum of 1.5 times larger than the safety message letters. The letters used for the safety message



CLAUSE	VERDICT	COMMENT
		<p>words shall be boldfaced Helvetica type with a minimum size of 12 points. Lowercase letters shall be compatible with the uppercase letter specification. The safety message shall be separate and distinct from the other messages and graphics in the owner's manual.</p> <p>⚠ "WARNING"</p> <p><u>Carbon monoxide (CO) is a colorless, odorless, poisonous gas. You can't taste, see, or smell CO, but it can kill in just minutes.</u></p> <p><u>This alarm will sound in a 4-beep pattern if life threatening levels of CO are detected.</u></p> <p><u>If the alarm sounds:</u></p> <ol style="list-style-type: none"><u>1) Immediately evacuate all occupants from the space and go outdoors to fresh air.</u><u>2) Call emergency responders (911 or fire department) for help; notify the building or vehicle owner, as necessary.</u>
