

STANDARD INFORMATION

This SUN establishes the Continuing Certification approach to Home Health Care Signaling Equipment

Standard Number: UL 1637

Standard Name: Home Health Care Signaling Equipment

Standard Edition and Issue Date: 4th Edition Dated December 29, 2006

Date of Revision: December 9, 2016

Date of Previous Revision of Standard: February 25, 2016

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **No action is required for currently certified products to maintain certification.**

This SUN is being presented to assist users of the standard to appreciate the significance of the changes made to the standard that will apply should the product described be modified after December 31, 2019

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

- Revisions to Update Short-Range Radio Frequency Devices Testing
- Revisions to Address Combination Systems Involving Carbon Monoxide Signaling
- Revisions to Permit Electronic Media Based Installation Instructions

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined out below.</i>
	Info	COMBINATION SYSTEMS <i>New section added;</i>
26.2		Carbon monoxide signaling systems <i>See standard for details.</i>
38	Info	Charging Current Test After maximum standby load has been applied at the residential control unit for 5 minutes, battery terminal voltage shall be not less than 85 percent of the marked ratings of the output circuits.
38.4		<i><u>After the 5 minutes of fire or carbon monoxide alarm, the maximum carbon monoxide alarm load shall continue to be applied for a period of not be less than 12 hours, followed by 7 consecutive days of trouble (audible and visual) signals. The 5-second "off" time of the carbon monoxide alarm signal shall be permitted to be changed to 60 seconds plus or minus 10 percent.</u></i>
46	Info	Electrical Transient Tests <i>Section deleted</i>
46.4	Info	Extraneous transients <i>New section added;</i>
46.4A		Input/output (low-voltage) field-wiring transients
46A.1		A product shall not generate a false signal and shall operate as intended when subjected to the extraneous transients described in 46.4A.2.
46A.2		The product is to be energized in the normal standby condition while connected to a source of supply in accordance with 28.2. All field-wiring circuits are to be tested as specified in 46.4A.3 and 46.4A.4. Exception: This test is not required when manufacturer's installation instructions indicate that it is not permitted to connect cables greater than 98.5 feet (30 m) long.
46A.3		For this test, each output circuit is to be subjected to the transient waveforms specified in Table 46A.1, as delivered into a 200-ohm load. The transient pulses are to be coupled directly onto the output circuit conductors of the equipment under test. See Table 46A.1 and Figures 46A.1 – 46A.4.



CLAUSE	VERDICT	COMMENT
46A.4		<p>Each conductor of a circuit is to be subjected to 60 transient pulses induced at the rate of six pulses per minute as follows:</p> <p>a) Twenty pulses (four at the 2400 peak voltage level and two at each of the other transient voltage levels specified in 46.4A.3) between each lead or terminal and earth ground, consisting of ten pulses of one polarity, and ten of the opposite polarity and</p> <p>b) Twenty pulses (four at the 2400 peak voltage level and two at each of the other transient voltage levels specified in 46.4A.3) between any two circuit leads or terminals consisting of ten pulses of one polarity and ten pulses of the opposite polarity.</p>
48	Info	Abnormal Operation Test
48.3		Overvoltage
48.3.1		Where a product has provisions for connection to a telephone, telegraph, or outside wiring as covered by Article 800 of the National Electrical Code, ANSI/NFPA 70, the product shall comply with the requirements for protection against overvoltage from power line crosses described in the <u>Standard for Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1.</u>
72	Info	Time to Report Alarm
72.1		The transmitter/receiver combination shall be arranged so that the occurrence of a home health care alarm or carbon monoxide alarm at any transmitter will be communicated without a delay and annunciated at the receiver/control unit. Under unusual or abnormal operating conditions (such as clash or interference), this signal may be delayed for a period not to exceed <u>90 seconds for medical alert alarms and 10 seconds for carbon monoxide alarms.</u>
74	Info	Clash
74.3		<p>The clash rate relative to normal status transmissions for each specific signal shall not exceed the following values:</p> <p>a) 0.0001, for fire signals.</p> <p>b) 0.0002, for medical or panic signals.</p> <p>c) 0.0005, for security signals.</p> <p>d) 0.005, for other signals, not including supervisory.</p> <p><u>The clash rate relative to normal status transmissions for each specific signal shall not exceed 0.0002, for medical carbon monoxide signals.</u></p>
	Info	MARKING
84	Info	General
		<i>New clause added;</i>
84.14		A marking affixed to the outside of a product or cautionary and located on the inside of a product secured by cement or adhesive shall comply with the applicable portions of the requirements in the Standard for Marking and Labeling Systems, UL 969.



CLAUSE	VERDICT	COMMENT
		CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.