STANDARDS UPDATE NOTICE (SUN)
ISSUED: May 18, 2022

STANDARD INFORMATION

Standard: UL 2610
Standard ID: Standard for Commercial Premises Security Alarm Units and Systems [UL 2610:2021 Ed.2]
Previous Standard ID: Standard for Commercial Premises Security Alarm Units and Systems [UL 2610:2018 Ed.1+R:12Jun2020]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **April 7, 2023**

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 Reports not updated to this version by the effective date above will be withdrawn.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:

- Addition of requirements for polymeric materials
- New requirements for remote access
- Revised requirements for the Dielectric Voltage-Withstand Test
- New test for digital alarm communicator transmitters (DACT)

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
		Additions to existing requirements are underlined and deletions are shown ~~lined out~~ below.
11	Info	**Enclosures**
11.7	Info	**Polymeric materials**
11.7.4		***New clause added;*** A polymeric enclosure intended for connection to a rigid metallic or nonmetallic conduit system shall comply with the applicable requirements or polymeric enclosure conduit connections in the Standard for Enclosures for Electrical Equipment, UL 50.
11.7.5		***New clause added;*** The continuity of a conduit system shall be provided by metal-to-metal contact and not rely on a polymeric material. It shall also comply with the requirements for polymeric enclosure bonding in the Standard for Enclosures for Electrical Equipment, UL 50.
11.11		***New section added;*** **Alarm sounding devices** Enclosures employed as a housing to protect an alarm sounding device from being silenced by a physical attack shall comply with the construction requirements in 11.11.2 – 11.11.9, as well as the performance requirements noted in 67.2.2 (Attack Test). See standard for details.
36	Info	**Power Over Communications Cable Equipment**
36.1	Info	**General**
36.16		Equipment covered by this section that is intended to be located in an outdoor environment is subject to the requirements noted in Outdoor Use Equipment, Sections 71 – 82, as applicable. In addition, any equipment installed in outdoor applications shall employ National Electrical Code, Class 3 wiring methods.
38	Info	**Remote Access**
38.1	Info	**General**
38.1.2		When equipment complies with the requirements in Section 38, the system shall be identified for Remote Access. Also see 38.1.14. These requirements apply to Central Station, Local, Police Station Connected and Proprietary, Burglar Alarm Systems. As indicated in the product installation instructions, Remote operation is prohibited from use in Holdup Alarm applications, or panic/emergency functions, where system commands should only be performed locally.

CLAUSE	VERDICT	COMMENT
38.1.10		***New clause added;*** When remote access features are employed, the manufacturer shall specify the minimum configuration consisting of the following: a) Transmission technology employed (e.g. GSM, CDMA, HSPA, LTE), along with protocol name and version number if applicable; b) Remote device operating system(s) and revision level, along with kernel version (if applicable); c) Remote device application software and build revision levels. The application software shall be specifically developed by the manufacturer or its subsidiary and be proven compatible with specific control units/equipment; and d) The burglar alarm system shall have the means to distinguish between the type of command/control information received from the local alarm system keypad versus that received from a remote device, via code or description. This user information, along with date/time stamp, shall be transmitted to the monitoring station (as applicable) so it is known which user (local vs. remote) has performed a specific system command. e) All items above shall be documented in the product installation instructions.
38.1.11		***New clause added;*** The burglar alarm system shall allow the connection of a user under the following conditions: a) As defined in the product installation instructions, a timeout feature, after a period specified by the manufacturer of no communication activity and/or no user connection, shall be implemented if the remote connection is lost, broken, or ended. The communication session shall be automatically terminated if it is idle for a maximum of 15 minutes; b) There can be multiple remote connections per system at a time for monitoring/communication purposes only. Remote operation, remote service/maintenance, and/or software/firmware deployment must be performed first-in, first-out (FIFO); and c) Access levels that are configured to provide specific functionality on the burglar alarm system shall then provide that functionality on the systems that the user is permissioned to execute. d) Means shall be provided to detect repeated attempts to gain access not recognized as valid by the control unit. There shall be a mechanism to lockout the system or an individual user from future validation after a maximum of 5 unsuccessful attempts within a 10-minute period, as specified by the manufacturer in the product installation instructions. Further attempts during this time period shall be automatically disabled.

CLAUSE	VERDICT	COMMENT
38.1.12		***New clause added;*** If closing (arming) the burglar alarm system remotely, an acknowledgment signal consisting of an audible and/or visual notification shall be provided to the remote device by the monitoring station to indicate that the closing signal has been properly received. See also 40.13.
38.1.13		When closing (arming) the burglar alarm system remotely, the control unit shall be programmed to arm the system without an exit delay. See also 6.44. This requirement must be noted in the product installation instructions.
38.1.14		When remote access features have been evaluated, the term “remote access” or the equivalent shall be provided as part of the product use marking shown in 89.2(c).
38.9		***New section added;*** **Remote diagnostics connection** If a manufacturer allows access for the purpose of remote diagnostics, the requirements in 38.3 and 38.5 shall apply. See standard for details.
38.10		***New section added;*** **Remote service and maintenance** If a manufacturer allows access for the purpose of remotely updating system software, configurations, and/or servicing of the burglar alarm system, the requirements in 38.3, 38.5 and 38.7 shall apply. See standard for details.
40	Info	**Communication Operation Tests**
40.14	Info	**Standard line security equipment**
40.14.3		Standard Line Security equipment shall comply with the following: c) Network Compromise – As applicable, the system shall be provided with minimum network security ensuring authorization of access to data within a network, to guard against such threats as: Denial of Service (DoS), spoofing, sniffing, hijacking, Trojans, viruses/worms, and malware. Software/hardware, a firewall, and/or a network intrusion detection system (NIDS) shall be provided as applicable and maintained with the latest updates, as supplied by the manufacturer.
41	Info	**Electrical Supervision Test**
41.14		***New clause added;*** As applicable, the occurrence of any fault indicated in Section 41 shall be annunciated locally and/or at the monitoring station within a maximum of 90 seconds from the time the fault is initiated.

CLAUSE	VERDICT	COMMENT
55	Info	**Dielectric Voltage-Withstand Test**
55.8		***New clause added;*** A printed-wiring board, as specified in 34.1, shall withstand for 1 min without breakdown the application of a dielectric withstand potential between the traces having reduced spacings, in accordance with 55.1, as appropriate.
55.9		***New clause added;*** As specified in 55.8, power-dissipating component parts, electronic devices, and capacitors connected between traces having reduced spacings, are to be removed or disconnected so that the spacings and insulations, rather than these component parts, are subjected to the full dielectric voltage-withstand test potential.
57	Info	**Power Failure Test**
57.1	Info	**General**
57.1.6		As applicable, the Power Failure Test is to be performed in conjunction with the Temperature Test (Section 56). Also see 56.3.
57.5	Info	
57.5.1		***New clause added;*** In addition to the requirements noted in 57.4, “Test method – general”, the requirements shown in 57.5.2 – 57.5.3 apply to proprietary burglar alarm units.
57.6	Info	**Test method – holdup alarm**
57.6.2		***New clause added;*** In addition to the requirements noted in 57.4, “Test method – general”, the requirements shown in 57.6.1 – 57.6.5 apply to holdup alarm units.
57.7	Info	**Test method – power supplies**
57.7.1		***New clause added;*** In addition to the requirements noted in 57.4, “Test method – general”, the requirements shown in 57.7.3 – 57.7.8 apply to power supplies.
57.8		***New section added;*** **Test method – digital alarm communicator transmitters (DACT)** In addition to the requirements noted in 57.4, “Test method – general”, the requirements shown in 57.7.3 – 57.7.8 apply to separately-supplied DACT’s. See standard for details.

CLAUSE	VERDICT	COMMENT
59	Info	**Electrical Transient Tests**
59.2	Info	**Supply line transients**
59.2.1		A high-voltage AC-operated product shall not false alarm, shall operate as intended, and shall retain required stored memory (such as date, type and location of a signal transmission within the unit), when subjected to supply line transients induced directly onto the power supply circuit conductors of the product under test. Supplemental information stored within the unit need not be retained.
67	Info	**Attack Tests**
67.2	Info	**Mercantile premises alarm applications**
67.2.2	Info	**Alarm sounding device**
67.2.2.5		The outside alarm housing shall resist, for 120 seconds, attempts to silence the alarm by the attack methods described in 67.2.3. The alarm is to be silent when the attack is started and the attack shall initiate the alarm. The outer and inner housings shall be connected in the closed protection circuit or fully insulated electric linings shall be used so that an alarm will result if the housing is penetrated by drills, pry bars, or similar tools.