

STANDARD INFORMATION

Standard: ULC 60839-11-1

Standard ID: Alarm and Electronic Security Systems - Part 11-1: Electronic Access Control Systems - System and Components Requirements [CAN/ULC 60839-11-1:2022 Ed.2]

Previous Standard ID: Alarm and Electronic Security Systems - Part 11-1: Electronic Access Control Systems - System and Components Requirements [CAN/ULC 60839-11-1:2016 Ed.1]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **July 15, 2024**

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 Reports not updated to this version by the effective date above will be withdrawn.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

- New requirements for Request-To-Exit Devices
- New requirements for Access Point Sensors and Actuators
- Additional requirements for Salt Spray (Fog)
- New Endurance Test
- Revised requirements for Environmental and EMC (immunity) tests

Specific details of new/revise 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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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>
6	Info	System performance functionality requirements <i>New section added;</i>
		Request-To-Exit Devices
6DV.10	Info	Request-to-exit devices shall be capable of signaling the access control unit to release the access point locking devices. When used on supervised portals, request-to-exit devices shall by-pass portal alerts caused by exiting. See standard for details.
		<i>New section added;</i>
		Access Point Sensors
6DV.11		Portal status sensors used with electronic access control systems shall comply with the requirements of ULC/ORD-C634, Connectors and Switches for Use with Burglar Alarm Systems. See standard for details.
		<i>New section added</i>
		Access Point Actuators
6DV.12		An access point actuator shall be constructed so that it either does not interfere with egress through the portal that it is used to control, or its locking action shall be capable of being released as required by the authority having jurisdiction if an emergency egress is required. See standard for details.
7	Info	Environmental and EMC (immunity) requirements
7DV.5	Info	Modification to add Clause 7DV.5.1 through Clause 7DV.5.4 to Clause 7 as follows:
7DV.5.1		Salt Spray (Fog)
		The apparatus for salt-spray (fog) testing is to consist of:
7DV.5.1.1		a) A fog chamber, the inside of which measures 1.2 by 0.8 by 0.9 m (48 by 30 by 36 in); b) <u>A salt-solution reservoir;</u> c) <u>A supply of conditioned compressed air;</u> d) <u>A dispersion tower constructed in accordance with ASTM B117-95, Standard Practice for Operating Salt Spray (Fog) Apparatus, for producing a salt fog;</u> e) <u>Sample supports;</u>



CLAUSE	VERDICT	COMMENT
		<p><u>f) Provision for heating the chamber; and</u> <u>g) Necessary means of control.</u></p>
		<p><i>New section added;</i></p> <p>Endurance Test</p>
7DV.7.1		<p>A product shall operate as intended at rated voltage and current for the number of cycles outlined in Table 7DV.3 with a maximum cycle rate of 17 cycles per min. The “intended operation” in this case shall be interpreted as including “without causing a fault or false alert”. See standard for details.</p>
8	Info	Test methods
8.4	Info	Functional tests for indication/annunciation (displaying, alert and logging)
8.4.3	Info	Test procedure
		<p>Monitoring console (Ref. Table 3, lines 5 to 47)</p> <p>To demonstrate the ability of the access control unit to comply with requirements in Table 3, lines 5 to 47, perform the following steps:</p>
8.4.3.2		<p><u>7) Repeatedly present a valid token together with invalid memorized information (e.g. wrong PIN) at the same portal. Monitor the response of the annunciation outputs and record the number of attempts until an alert indication is given. Functionality shall be as per Table 3, line 10.</u></p> <p><u>8) Present valid memorized information (e.g. PIN) to a suitably configured access point to create an access granted condition and simulate the portal being opened and closed. Confirm correct operation as per Table 3, lines 1, 6, 15 and 27.</u></p>
8.10	Info	Environmental and EMC (immunity) tests
		<p><i>New clause added;</i></p> <p>1) The test apparatus and the test procedures shall be as described in Section 7 of IEC 62599-1 and IEC 62599-2. Apply the tests indicated in Table 9.</p> <p>3) The levels of severity to be applied are defined by four levels from indoor location or outdoor location use I to indoor location or outdoor location use IV:</p>
8.10.1DV		<p>a) Class I: indoor but restricted to residential/office environment (e.g., living rooms and offices);</p> <p>b) Class II: indoor in general (e.g., sales floors, shops, restaurants, stairways, manufacturing and assembly areas, entrances and storage rooms);</p> <p>c) Class III: outdoor but sheltered from direct rain and sunshine or indoor with extreme environmental conditions (e.g., garages, lofts, barns and loading bays);</p> <p>d) Class IV: outdoor in general.</p>



CLAUSE	VERDICT	COMMENT
		<i>New clause added;</i>
8.10.2DV		In addition to the criteria for compliance specified in Section 7 of IEC 62599-1 and IEC 62599-2, the functional test of 8.2 shall be applied during the initial measurements.
		<i>New clause added;</i>
8.10.4DV		1) The test specimens shall be exposed to the conditioning and tests specified in Table 9 using the methods described in Section 7 of IEC 62599-1 and IEC 62599-2.
		<i>New clause added;</i>
8.10.6DV		In addition to the criteria for compliance specified in Section 7 of IEC 62599-1 and IEC 62599-2, the functional test of 8.2 shall be applied during the initial and final measurements.
9	Info	Documentation and marking
9.1	Info	Documentation
		<i>New clause added;</i>
		c) installation information, including:
9.1DV		<ul style="list-style-type: none"> – operating temperature and humidity range; – indoor dry conditions or outdoor condition use; – IP/IK rating to which the equipment complies; – mounting instructions; – instructions for connecting the inputs and outputs;
9.2	Info	Marking
		<i>New clause added;</i>
9.2DV.1		e) indoor dry conditions or outdoor condition use