

# STANDARDS UPDATE NOTICE (SUN) ISSUED: May 20, 2024

### **STANDARD INFORMATION**

Standard: UL 294

Standard ID: Access Control System Units [UL 294:2023 Ed.8]

Previous Standard ID: Access Control System Units [UL 294:2018 Ed.7+R:08Oct2018]

#### **EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS**

Effective Date: May 24, 2025

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 Reports not updated to this version by the effective date above will be withdrawn.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

- Remote Access requirements
- Software/Firmware Upgrades
- Egress Control Systems Requirements
- Overload and Endurance Test (power supply) updates
- Destructive Attack Test updates

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
12	Info	Enclosure
12.11	Info	Polymeric materials
		New clause added;
12.11.3		A polymeric enclosure intended for connection to a rigid metallic or nonmetallic conduit system shall comply with the applicable requirements for polymeric enclosure conduit connections in UL 50.
		New clause added;
12.11.4		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 UL 50.
	Info	PERFORMANCE – ALL UNITS
35	Info	Remote access
35.8		A remotely accessible system is a system that is able to be accessed with a device other than that located at the protected premises. The device can take the form of a smart phone/tablet, an internet-connected device, or any other means of accessing an access control system that is not using the control unit's human interface, albeit a wired and/or wireless keypad, card reader, or other user-accessible interface device located at the protected property.  See standard for details.
35.9		Egress control systems
35.9.1		New clause added;  Egress control systems that utilize low power radio frequency (RF) technology are subject to all RF tests noted in the Short-Range Radio Frequency (RF) Tests, in UL 2610, as applicable. The associated tags/credentials used for the egress control system are also subject to the RF tests noted, as applicable. Also see 2.5, Exception No. 2.



CLAUSE	VERDICT	COMMENT
		New section added;
		Key management systems
35.10		Key management systems provide a means of regulating or controlling keys by electrical, electronic and/or mechanical means. Key management systems allow authorized users access to keys upon verification of appropriate credentials.
		See standard for details.
49	Info	Overload Test
49.3		New section added;
		Power supplies
		An access control power supply shall operate as intended following 50 cycles of operation.
		See standard for details.
50	Info	Endurance Test
50.1	Info	General
		New clause added;
50.1.7		Key management system units shall function as intended when subjected to a 6,000 cycle test.
		New section added;
50.3		Power supplies An access control power supply shall operate as intended following the minimum Endurance Test Level.
		See standard for details.
52	Info	Dielectric Voltage-Withstand Test
		New clause added;
52.8		A printed-wiring board, as specified in 34.2, shall withstand for 1 min without breakdown the application of a dielectric withstand potential between the traces having reduced spacings, in accordance with 52.1, as appropriate.



CLAUSE	VERDICT	COMMENT
		New clause added;
52.9		As specified in 52.8, 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.
66	Info	Destructive Attack Alarm Test
		New clause added;
66.1		The requirements of Section 66 are to be applied to any sounding device deemed crtitical for proper system operation, as well as for those products achieving Destructive Attack Level III or Level IV, as applicable. Also see 65.8.
67	Info	Access Control Line Security
67.1	Info	General
		New clause added;
67.1.3		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.