

## STANDARD INFORMATION

**Standard:** UL 521

**Standard ID:** Heat Detectors for Fire Protective Signaling Systems [UL 521:1999 Ed.7+R:24Mar2021]

**Previous Standard ID:** Heat Detectors for Fire Protective Signaling Systems [UL 521:1999 Ed.7+R:18Nov2020]

## EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

**Effective Date:** **March 24, 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.

### Overview of Changes:

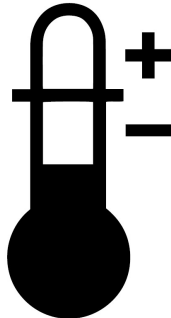
- Stability Test Revisions
- Minimum Size for Programmable Heat Detector Symbol

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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



## STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown <del>lined-out</del> below.</i>
40	Info	<b>Stability Test (Electronic Heat Detectors)</b>
40.6	Info	<i>Deleted</i>
40A		<b><i>New section added;</i></b>
		<b>Determination of Stability Test for Mechanical Heat Detectors</b>
40A.1		A heat detector using both eutectic solder and copper within the construction of the releasing mechanism where the two dissimilar metals are in contact with each other shall operate for its intended signaling performance after being subjected to the stability test. The releasing mechanism is defined as the components that cause the contacts to operate as the eutectic solder melts.
40A.2		A fixed-temperature detector shall operate within the general limits, according to its rating, when subjected to an Operating Temperature Test, Section 22, in heated water, oil, air bath or an equivalent method after being subjected to the procedure in 40A.3.
40A.3		Ten samples shall be subjected to 30 days at an ambient temperature of 8.3°C (15°F) below its operating temperature in an environment with relative humidity of 85 ±5%. Upon completion of the test, the samples shall remain at room temperature for a period of 24 hours, after which they shall be subjected to the Operating Temperature Test, Section 22, to determine the activation temperature.
	Info	<b>MARKING</b>
53	Info	<b>General</b>
		Field programmable spot-type heat detectors shall be marked with the following or equivalent symbol on the surface of the detector in a contrasting color:
53.8		
		<u>The symbol shall be at least 3/8 in (9.5 mm) high.</u>