Australian Standard™

AS 2362.11

Fire detection, warning, control and intercom systems—Methods of test

Method 11: Damp heat test

1 SCOPE

This Standard sets out the method for testing the stability of an actuating device under damp heat conditions. (See performance requirements in the appropriate device Standard.)

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

IEC
60068 Environmental testing
60068-2-3 Part 2: Tests—Test Ca—Damp heat, steady state

3 PRINCIPLE

The actuating device is exposed to the specified environment for a specified period of time and monitored for alarm state and fault signal. The manufacturer's actuating device compatibility parameters are verified at the end of the exposure period while the specified environment is maintained.

4 APPARATUS

A test chamber, constructed so that the position at which the actuating devices are located can be exposed to the specified temperature and relative humidity throughout the test period.

Mist shall not be permitted to form, and no condensate shall be permitted to drip onto the specimens. If it is necessary for the air to be circulated, the flow velocity in the vicinity of the actuating devices shall not exceed 0.5 m/s.

5 PROCEDURE

The procedure shall be as follows:

(a) Mount the actuating device in its normal orientation inside a suitable test chamber, and connect the leads to a power supply and monitoring equipment.

(b) Energize the actuating device and allow to stabilize for a period of not less than 10 min.

(c) Expose the actuating device to the specified temperature and relative humidity for a period of 96 h, in accordance with IEC 60068-2-3.