

ICS 13.310
CCS A 91



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 15211-2013

Replacing GB/T 15211-1994

**Security alarm equipment -- Environmental adaptability
requirements and test methods
(English Translation)**

Issued on: December 31, 2013

Implemented on: March 1, 2015

Issued by: Standardization Administration of China

Table of Contents

Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 Device types and Environment Category
4.1 Device Type
4.2 Environmental Category
5 3 standard test conditions
6 Tolerance range
7 Relevant product standards should contain
8 Heat test (working)
8.1 Test Objective
8.2 Test Mode
8.3 Test equipment and test procedures
9 Heat test (durability)
9.1 Test Objective
9.2 Test Mode
9.3 Test equipment and test procedures
10 Low Temperature Test (working)
10.1 Test Objective
10.2 Test mode
10.3 Test equipment and test procedures
11 Temperature change test (working)
11.1 Test Objective
11.2 Test mode
11.3 Test equipment and test procedures
12 Damp heat test (working)
12.1 Test Objective
12.2 Test mode
12.3 Test equipment and test procedures
13 Damp heat test (durability)
13.1 9 test purposes

13.2	Test Mode	
13.3	9 test equipment and test procedures	
14	(working) 10 Damp heat test	
14.1	Test purposes	
10 14.2	Test mode	
14.3	Test equipment and test procedures	
15	Damp heat test (durability)	
15.1	Test purposes	
13 15.2	Test mode	
15.3	Test equipment and test procedures	
14 16	water test	
16.1	Test purposes	
14 16.2	Test mode	
16.3	Test equipment and test procedures	
17 16	Sulfur dioxide endurance test	
17.1	Test purposes	
17.2	Test method	
17.3	Test equipment and test procedures	
18	Salt spray test cycle durability	
18.1	Test purposes	
17 18.2	Test mode	
18.3	Test equipment and test procedures	
19	Low temperature and low air pressure test	
19.1	Test purposes	
18 19.2	Test mode	
19.3	Test equipment and test procedures	
20	Impact test (working condition)	
20.1	Test purposes	
19 20.2	Test mode	
20.3	Test equipment and test procedures	
21	Hammer test (working condition)	
21.1	Test purposes	
21 21.2	Test mode	
21.3	Test equipment and test procedures	
22	Free drop test (working condition)	

22.1	Test purposes
22 22.2	Test mode
22.3	Test equipment and test procedures
23	Sinusoidal vibration test (working condition)
23.1	Test purposes
23 23.2	Test mode
23.3	Test equipment and test procedures
24	Sinusoidal vibration test (durability)
24.1	Test purposes
24 24.2	Test mode
24.3	Test equipment and test procedures
25	Simulated solar radiation and temperature rise test (working condition)
25.1	Test purposes
25 25.2	Test mode
25.3	Test equipment and test procedures
26	Simulated solar radiation and surface aging test (durability)
26.1	Test purposes
26 26.2	Test mode
26.3	Test equipment and test procedures
27	Dust test (durability)
27.1	Test purposes
27 27.2	Test mode
27.3	Test equipment and test procedures
Appendix A (informative)	This standard and IEC 62599-1:2010 structure change compared to the situation
Annex B (informative)	This standard and IEC 62599-1:2010 technical differences and the reasons
References	

Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 15211-1994 "alarm system environmental testing", compared to the main changes are as follows.

--- Deleted the term "false alarms", "leakage alarm", "failed state" (see Chapter 3, 1994);

- Remove the "General" (see Chapter 4, 1994);
- Remove the "supply voltage variation test" (see 1994 edition 5.8);
- Remove the "light scattering test" (see 1994 edition 5.9);
- Remove the "air flow test" (see 1994 edition 5.11);
- Remove the "random vibration" (see 1994 edition 5.5);
- Remove the "random vibration" accelerated test (see 1994 Version 6.5.3);
- Increasing the term "public assistance system" and "stationary equipment", "mobile devices," "portable device", "pre-treatment", "conditions Test "," Recovery "(see Chapter 3);
- Added "environment class" (see Chapter 4);
- To increase the "standard test conditions" (see Chapter 5);
- Increased "tolerance range" (see Chapter 6);
- Added "relevant product standards should contain information" (see Chapter 7);
- Added "temperature test" (see Chapter 11);
- Added "salt spray cycle durability test" (see Chapter 18);
- Added "Low Pressure Test" (see Chapter 19);
- Added "simulated solar radiation and temperature rise test (working)" (see Chapter 25);
- Added "simulated solar radiation and surface aging test (durability)" (see Chapter 26);
- Amend the foreword;
- Modify the scope (see Chapter 1, Chapter 1 of the 1994 edition);
- Modify the temperature test (working) severities (see 834, 1994 Edition 5.1.3.);
- Modify the temperature test (durability) of the severities (see 934, 1994 Edition 6.1.3.);
- Modify the low temperature test (working) severities (see 1034, 1994, version 5.2.3.);
- Modified Damp heat test (working) severities (see 1234, 1994, version 5.6.3.);
- Modified Damp heat test (durability) of the severities (see 1334, 1994 version 6.2.3.);
- Modified alternating hot and humid test (working) severities (see 1434, 1994 version 5.7.3.);
- Modified alternating hot and humid (durability) of the severities (see 1534, 1994 version 6.3.3.);
- The "shell protection test" to "water test" and "dust test" and modify the severity (see 16.3.2,27.3.2,1994 in version 5.13.3);