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

GB/T 30148-2013

**Security alarm equipment -- EMC immunity requirements and
test methods**

(English Translation)

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Foreword

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

This standard uses redrafted law revision using IEC 62599-2:2010 "Alarm systems - Part 2. Electromagnetic compatibility Fire and Security Full security alarm system equipment immunity requirements. " this standard and IEC 62599-2:2010 technical differences and the reasons are as follows.

--- Taking into account the present situation of safety and security management belong to the standard delete the IEC 62599-2:2010 in the inner and fire-related Volume, specific adjustments are as follows.

- Remove the IEC 62599-2:2010 in the name of "Fire and" and the standard name was changed to "security alarm equipment EMC immunity requirements and test methods";
- Remove the IEC 62599-2:2010 Chapter 1 of "Fire detection and fire alarm systems";
- Remove the IEC 62599-2:2010 Chapter 3 of "Fire detection and fire alarm systems."

--- According to GB/T 1.1-2009 request to modify the IEC 62599-2:2010 range.

--- The Chapter 2 "IEC 61000-4-3:2006" to "IEC 61000-4-3:2010".

--- 3.1.3 adds "test conditions."

--- Remove the IEC 62599-2:2010, the term "regional product performance standards", "intrusion alarm system", "Emergency Alert System."

--- Modify the IEC 62599-2:2010 in Chapter 7 - Chapter 13, title names.

--- Modify the IEC 62599-2:2010 8.3.4 in the content, allowing the use of auxiliary equipment EUT.

--- The IEC 62599-2:2010 Note 5.3 modify the text content.

--- The IEC 62599-2:2010 Note in 11.3.3 modify text content.

--- The IEC 62599-2:2010 11.4 NOTE modify text content.

This standard made the following editorial changes.

--- Remove the IEC 62599-2:2010 Foreword;

--- The "IEC 62599 this part" to "this standard";

--- Increasing the preface of this standard.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard by the National Security Alarm System Standardization Technical Committee (SAC/TC100) and focal points.

This standard was drafted. the Ministry of Public Security and Police Electronic Products Quality Inspection Center, Beijing in the security shield technology development company, Ministry of Public Security Security Alarm System Product Quality Supervision and Inspection Center (Shanghai), Honeywell (China) Co., Ltd., Shenzhen City Angola technology measurement standards Limited.

1 Scope

This standard specifies the security alarm device supply voltage adaptability, the power supply voltage dips and short interruption immunity, anti-static discharge Deflections, RFEMS, conducted disturbances induced RF field immunity, electrical fast transient burst immunity Surge (impact) anti Scrambling degree EMC immunity requirements and test methods.

This standard applies to the following security alarm devices in the system.

a) intrusion alarm systems;

b) video surveillance system;

- c) access control systems [including building intercom system, electronic patrol system, parking (library) safety management systems];
- d) the public assistance system;
- e) a remote receiver and/or monitoring center;
- f) a) ~ e) a combination of various systems and/or integrated systems;
- g) containing solid protective equipment electronic device;
- h) biometric identification applications.

This standard does not apply to (near-emitting devices such as high-power, radar, etc.) special electromagnetic environment security alarm device.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2421.1-2008 Environmental testing for electric and electronic products overview and guidance (IEC 60068-1. 1988, IDT) GB/T 17626.4 Electromagnetic compatibility Testing and measurement techniques - Electrical fast transient burst immunity test (GB/T 17626.4-2008, IEC 61000-4-4:2004, IDT) GB/T 17626.5 electromagnetic compatibility test and measurement technology surge (impact) immunity test (GB/T 17626.5-2008, IEC 61000-4-5:2005, IDT) GB/T 17626.11 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (GB/T 17626.11-2008, IEC 61000-4-11:2004, IDT) GB 50348 security engineering and technical norms IEC 61000-4-2:2008 Electromagnetic compatibility (EMC) Part 4-2. Testing and measurement techniques - Electrostatic discharge immunity test [Electromagnetic compatibility (EMC) -Part 4-2. Testing and measurement techniques-Electrostatic discharge immunity test] IEC 61000-4-3:2010 Electromagnetic compatibility (EMC) Part 4-3. Testing and measurement techniques RFEMS Test [Electromagnetic compatibility (EMC) -Part 4-3. Testing and measurement techniques-Radiated, radio-frequency, electromagnetic field immunity test] IEC 61000-4-6:2008 Electromagnetic compatibility (EMC) Part 4-6. Testing and measurement techniques conducted disturbances, induced RF field Immunity [Electromagnetic compatibility (EMC) -Part 4-6. Testing and measurement techniques-Immunity to conducted disturbances, induced by radio-frequency fields] ETSI EN 301489 (all parts) Electromagnetic compatibility and radio spectrum (ERM) Electromagnetic compatibility for radio equipment and services (EMC) standard [Electromagnetic compatibility and radio spectrum matters (ERM) -Electromagnetic compatibility (EMC) standard for radio equipment and services]

ETSI EN 300339 Electromagnetic compatibility and radio spectrum (ERM) radio communication equipment for electromagnetic compatibility (EMC)
[Electromagnetic compatibility and radio spectrum matters (ERM)
- General Electromagnetic compatibility (EMC) for radio communication equipment]

3.1 Terms and Definitions

GB 50348 and defined by the following terms and definitions apply to this document.

3.1.1

EMC basic standards basic EMC standard Description EMC phenomena, test and measurement methods and standard test equipment and test set-up details.

NOTE: EMC basic standards shows how to select the severity of the way, but did not give a predetermined value or compliance determination.

3.1.2

Public alarm system social alarm system Provide the public with an alarm system call for help in case of danger.

3.1.3

Conditioning test conditions the test samples were exposed to the test environment to determine the impact of these conditions on the test samples.

[GB/T 2421.1-2008, the definition 4.1.2]

3.2 Acronyms

The following abbreviations apply to this document.

CDN. coupling decoupling network Coupling and Decoupling Network CW. continuous wave (carrier) Continuous Wave (carrier wave) EMC. Electromagnetic Compatibility Electromagnetic Compatibility EUT. EUT Equipment Under Test

4 Test Description

The following terms and conditions of the standard test should be carried out separately. EUT shall meet the requirements of the compliance determination tests. On the same EUT Test sequence number of the test when no specific requirements, and allows the intermediate process using a simplified function tests, and complete backward in all tests A complete line of functional tests. However, in this case, if the EUT functional failure phenomenon occurs, it may not be confirmed by the test which of Lead.

The relevant provisions of this standard is referenced in the current applicable EMC basic standards. The specific content of these standards (e.g., test procedures, test device Test