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**Security technical requirements for building intercom systems
(English Translation)**

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Foreword

All the technical content of this standard is mandatory.

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

1 Scope

This standard specifies the functions, performance requirements and test methods of the building intercom system associated with the security.

This standard applies to the building intercom system used in residential and commercial buildings (hereinafter referred to as "system").

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this Standard.

GB 4208 Degrees of protection provided by enclosure (IP code)

GB 12663-2001 General specifications for burglar-alarm control units

GB/T 16796-2009 Safety requirements and test methods for security alarm equipment

GB/T 30148-2013 Security alarm equipment - EMC immunity requirements and test methods

GB/T 31132-2014 Intrusion alarm systems - Technical requirements for interconnection of equipment using radio frequency

ITU-TP.50 Artificial voice

ITU-TP.51-1996 Artificial mouth

ITU-TP.57-2011 Artificial ear

ITU-TP.501 Test signal for telephone measurement

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Building intercom system; BIS

It refers to the electronic system which is used in the residential and commercial buildings, has such functions as selective call, intercom, visual (if any) and so on, AND is able to control the unlocking.

3.1.2

Visitor call unit; VCU

It refers to the device which is installed at the entrance of the controlled building, can choose to call the user receiver and management unit, AND is able to realize intercom, camera (if any) and unlocking control.

3.1.3

User receiver unit; URU

It refers to the device which can be selectively called by the visitor call unit or the management unit, achieve intercom and visual (if any), AND is able to control the unlocking of the visitor call unit.

3.1.4

Management unit; MU

It refers to the device that is used by an administrator to realize two-way selective call and intercom with the visitor call unit and user receiver unit AND it is able to control the unlocking of the visitor call unit.

3.1.5

Special auxiliary device

It refers to a dedicated device for assisting in the realization of basic functions in a system, such as the device for implementing system communication, remote control, and interface integration with a third-party device.

It refers to the gain of the sound pressure of the ear reference point at the receiving end as relative to the excitation sound pressure of the mouth reference point at the sending end, in dB, which is a function of frequency.

3.1.13

Acoustic delay

It refers to the one-way delay time required by the voice signal input into the mouth reference point at the sending end through each component of the system to the output from the ear reference point at the receiving end.

3.1.14

Idle channel noise

It refers to the noise as measured from the receiving end of the interphone when there is no test signal transmission after the channel is established, in dB (A).

3.1.15

Loudness rating guard-ring position; LRGP

It refers to, when measuring the loudness rating of the system, the relative position of the management unit or user receiver handle to the artificial mouth.

3.2 Abbreviations

The following abbreviations apply to this document.

EUT. Equipment under test

4 System components

The basic composition of the building intercom system shall include the visitor call unit in wired connection, user receiver unit, power supply, and the possible special auxiliary device AND/OR common auxiliary device, AND it may be equipped with the management unit as required. The composition diagram of the system is as shown in Figure 1.

unlocking. AND the user shall be able to confirm and manually control the unlocking through the user receiver unit after receiving the visitor calls. The system shall have an unlocking signal output interface.

Note: The unlocking signal output interface is usually provided by the visitor call unit.

5.1.5 Night operation

Visitor call unit shall be able to provide night key backlight and camera auto lighting function to facilitate the night operation of user.

5.1.6 Operation instructions

The system shall have the operation information prompt function. The visitor call unit shall have a clear call operation indication or identification, AND shall provide audible and/or visual prompts during operation and unlocking.

5.2 System function requirements of management unit configuration

The system configuring the management unit shall, in addition to the requirements of 5.1, also comply with the following requirements.

a) The management unit shall be able to selectively call the user receiver unit, the visitor call unit and the user receiver unit shall be able to call the management unit, all calls shall have the corresponding call and answer