

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Building intercom systems –  
Part 1-1: System requirements – General**

**Systèmes d'interphone de bâtiment –  
Partie 1-1: Exigences du système – Générales**



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## CONTENTS

FOREWORD.....	5
INTRODUCTION.....	7
1 Scope.....	8
2 Normative references.....	8
3 Terms, definitions and abbreviations .....	9
3.1 Terms and definitions .....	9
3.2 Abbreviations .....	11
4 Functional requirements .....	11
4.1 Basic functional requirements.....	11
4.1.1 General .....	11
4.1.2 Requirements for building intercom system with SMU .....	12
4.2 Additional functions.....	13
5 Performance requirements.....	13
5.1 Audio characteristics .....	13
5.1.1 Acoustic pressure level .....	13
5.1.2 Overall loudness rating (OLR) .....	13
5.1.3 Overall sensitivity.....	13
5.1.4 Frequency response.....	15
5.1.5 Acoustic distortion.....	15
5.1.6 Channel S/N ratio.....	15
5.1.7 Sidetone masking rating (STMR) .....	15
5.1.8 Idle channel noise .....	15
5.1.9 Ringtone sound pressure .....	15
5.1.10 Acoustic stability (Larsen effect).....	15
5.1.11 Acoustic safety .....	15
5.2 Video characteristics .....	16
5.2.1 Image resolution .....	16
5.2.2 Gray scale .....	16
5.2.3 Focus distance .....	16
5.2.4 Color reproduction .....	16
5.2.5 Environmental illuminance adaptability .....	16
5.3 Environmental adaptability requirements.....	16
5.3.1 Environmental classes .....	16
5.3.2 Environmental adaptability .....	16
5.4 Safety requirements .....	17
5.5 Additional protection under fault conditions.....	17
5.6 Electromagnetic compatibility requirements .....	18
5.6.1 Electromagnetic compatibility immunity requirements.....	18
5.6.2 Additional electromagnetic compatibility immunity requirements.....	18
5.6.3 Electromagnetic compatibility emission requirements.....	18
5.7 Markings and mechanical structural requirements .....	18
5.7.1 Markings.....	18
5.7.2 Mechanical structure .....	19
5.7.3 Enclosure protection capability .....	19
5.7.4 Anti-vandalism .....	19
6 Test methods.....	19

6.1	Test conditions.....	19
6.1.1	Test environmental conditions .....	19
6.1.2	Electrical connection .....	20
6.2	Function test .....	20
6.3	Audio characteristics test .....	20
6.4	Video characteristics test .....	20
6.5	Environmental adaptability test.....	20
6.6	Safety test .....	20
6.7	Protection under fault conditions test.....	20
6.8	Electromagnetic compatibility test.....	20
6.8.1	Electromagnetic compatibility immunity test.....	20
6.8.2	Additional electromagnetic compatibility immunity test .....	20
6.8.3	Electromagnetic compatibility emission test .....	21
6.9	Markings and mechanical structure test .....	21
6.9.1	Markings and scrub resistance test.....	21
6.9.2	Mechanical structure test .....	21
6.9.3	Enclosure protection capability test .....	21
6.9.4	Anti-vandalism test.....	21
7	Documentation .....	22
Annex A (normative)	Test of audio characteristics .....	23
A.1	Test conditions.....	23
A.2	Acoustic pressure level test.....	23
A.2.1	Methods.....	23
A.2.2	Calibration of test equipment.....	24
A.2.3	Test of the acoustic pressure level .....	24
A.3	Overall loudness rating (OLR) test .....	25
A.3.1	Measurement of sound pressure $P_m$ at the MRP.....	25
A.3.2	Measurement of output sound pressure $P_o$ of the hands-free EUT.....	25
A.3.3	Measurement of output sound pressure $P_e$ of the handset EUT.....	26
A.3.4	Calculations of the OLR .....	27
A.4	Overall sensitivity test .....	28
A.4.1	Test of the overall sensitivity at the hands-free EUT.....	28
A.4.2	Test of the overall sensitivity at the handset EUT.....	28
A.5	Frequency response test .....	28
A.6	Acoustic distortion test .....	29
A.7	Channel S/N ratio test .....	29
A.8	Stetone masking rating (STMR) test.....	29
A.9	Idle channel noise test .....	30
A.10	Ringtone sound pressure test .....	30
A.11	Acoustic stability (Larsen Effect) test .....	30
A.12	Acoustic safety test .....	31
Annex B (normative)	Test of video characteristics .....	33
B.1	Test conditions.....	33
B.2	Connection of the tested system.....	33
B.3	Image resolution test.....	33
B.4	Gray scale test.....	34
B.5	Focus distance test .....	34
B.6	Color reproduction test.....	35
B.7	Environmental illumination adaptability test.....	36

Annex C (normative) Different requirements between grade 1 and grade 2 .....	37
Annex D (normative) Safety requirements correspondence in IEC 60065 or IEC 60950-1 .....	39
Bibliography .....	40
Figure 1 – Overall sensitivity at the hands-free unit .....	14
Figure 2 – Overall sensitivity at the handset unit.....	14
Figure A.1 – Measurement of sound pressure $P_m$ at the MRP .....	25
Figure A.2 – Measurement of output sound pressure $P_o$ when connected with the handset unit.....	25
Figure A.3 – Measurement of output sound pressure $P_o$ when connected with the hands-free unit .....	26
Figure A.4 – Measurement of output sound pressure $P_e$ when connected with the handset unit.....	26
Figure A.5 – Measurement of output sound pressure $P_e$ when connected with the hands-free unit .....	26
Figure A.6 – Measurement of STMR at the handset EUT .....	30
Figure A.7 – Measurement of ringtone sound pressure .....	30
Figure A.8 – Acoustic stability test for handset EUT.....	31
Figure A.9 – Acoustic stability test for hands-free EUT .....	31
Figure A.10 – Acoustic safety test .....	32
Figure B.1 – Connection diagram for test of video characteristics.....	33
Figure B.2 – TE170 test chart .....	34
Figure B.3 – TE83 test chart .....	34
Figure B.4 – Focus test chart .....	35
Figure B.5 – Position of the external ring area .....	35
Figure B.6 – TE106 test chart .....	36
Table 1 – Environmental adaptability requirements .....	17
Table A.1 – Factors for CL .....	28
Table C.1 – Requirements of grade 1 and grade 2.....	37
Table D.1 – Correspondence between IEC 60065 and IEC 60950-1 .....	39

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**BUILDING INTERCOM SYSTEMS –****Part 1-1: System requirements – General**

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The text of this standard is based on the following documents:

FDIS	Report on voting
79/559/FDIS	79/563/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62820 series, published under the general title *Building intercom systems*, can be found on the IEC website.

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## INTRODUCTION

This part of IEC 62820 specifies the technical requirements for building intercom systems and equipment used for building entry. Building intercom systems can function independently and may be extendable to support building security management functions, e.g. extendable with security management unit (SMU) operated by security staff (door-man, concierge, security-guard, porter, etc.), or in conjunction with other systems as per the security requirements of the building. It may consist of: Visitor call unit (VCU), user receiver unit (URU), SMU, power supply, auxiliary device as well as interface-unit to other security-systems.

The IEC 62820 series of standards set out the technical requirements for the composition, functions, performance, test methods of building intercom systems for building entry and application guidelines and consist of five parts:

Part 1-1: System requirements – General

Part 1-2: System requirements – IP building intercom systems

Part 2: Requirements for advanced security building intercom systems

Part 3-1: Application guidelines – General

Part 3-2: Application guidelines – Advanced security building intercom systems

The Part 1-1 of IEC 62820 is based on Chinese standard GB/T 31070.1-2014 and European standard EN 50486:2008.

## BUILDING INTERCOM SYSTEMS –

### Part 1-1: System requirements – General

#### 1 Scope

This Part of IEC 62820 specifies the technical requirements for the composition, functions, performance, and test methods of general building intercom systems.

This part is applicable to the general intercom systems for building entry in residential or commercial buildings.

Door-Entry-System (DES) is a simple kind of convenient Building-Intercom-System (BIS) mainly for user's comfort. This document has classified the general building intercom systems into two grades in Part 1-1. Grade 1 adopts lower requirements to cover DES not used for relevant security applications while grade 2 adopts higher requirements for building intercom systems for security applications. Each grade may adopt different functional and performance requirements, test methods and normative references.

NOTE The different requirements between grade 1 and grade 2 are summarized in Table C.1.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60065:2014, *Audio, video and similar electronic apparatus – Safety requirements*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 60529:1989/AMD1:1999

IEC 60529:1989/AMD2:2013

IEC 60950-1:2005, *Information technology equipment – Safety – Part 1: General requirements*

IEC 61000-6-1, *Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments*

IEC 61000-6-3, *Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments*

IEC 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

IEC 62599-1, *Alarm systems – Part 1: Environmental test methods*

IEC 62599-2, *Alarm systems – Part 2: Electromagnetic compatibility – Immunity requirements for components of fire and security alarm systems*

ISO 12233:2014, *Photography – Electronic still picture imaging – Resolution and spatial frequency responses*