IEC 62820-1-2

Edition 1.0 2017-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Building intercom systems –
Part 1-2: System requirements – Building intercom systems using the internet protocol (IP)

Systèmes d'interphone de bâtiment –
Partie 1-2: Exigences du système – Systèmes d'interphone de bâtiment utilisant le protocole internet (IP)

IEC 62820-1-2:2017-07(en-fr)

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BUILDING INTERCOM SYSTEMS –

Part 1-2: System requirements – Building intercom systems using the internet protocol (IP)

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 62820-1-2 has been prepared by IEC technical committee 79: Alarm and electronic security systems.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
79/577/FDIS	79/589/RVD

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

This document 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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION

The IEC 62820 series of standards set out the technical requirements for the composition, functions, performance, and 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 – Building intercom systems using the internet protocol (IP);

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.

BUILDING INTERCOM SYSTEMS –

Part 1-2: System requirements – Building intercom systems using the internet protocol (IP)

1 Scope

This part of IEC 62820 specifies the technical requirements for the composition, functions, performance and test methods of building intercom systems using the internet protocol (IP), and it is a supplement to IEC 62820-1-1.

This document is applicable to the IP building intercom systems for both residential and commercial buildings.

NOTE A BIS that has a mixture of IP and non-IP connections is not covered by IEC 62820-1-2 but covered by IEC 62820-1-1.

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 62820-1-1:2016, *Building intercom systems – Part 1-1: System requirements – General*

ITU-T P.501, *Test signals for use in telephonometry*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the definitions given in IEC 62820-1-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1.1
audio delay
audio latency
one way delay (OWD) time of the transmitted audio signal from the microphone of one intercom unit through other components in the system to the loudspeaker of other intercom unit

3.1.2
audio switching time
time, from one transmission direction to the other measured from the removal of the signal in the first direction until the level in the second direction reaches 3 dB below its final value