



SLOVENSKI STANDARD
SIST EN 62820-1-1:2017/A11:2022

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Notranja komunikacija v stavbah - 1-1. del: Splošne zahteve - Dopolnilo A11

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

Gebäude-Sprechanlagen - Teil 1-1: Generelle Systemanforderungen

Systèmes d'interphone de bâtiment - Partie 1-1: Exigences du système - Généralités

Ta slovenski standard je istoveten z: EN 62820-1-1:2016/A11:2021

ICS:

35.240.67	Uporabniške rešitve IT v gradbeništvu	IT applications in building and construction industry
97.120	Avtomatske krmilne naprave za dom	Automatic controls for household use

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EUROPEAN STANDARD

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English Version

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

Systèmes d'interphone de bâtiment - Partie 1-1: Exigences
du système - Généralités

Gebäude-Sprechanlagen - Teil 1-1: Generelle
Systemanforderungen

This amendment A11 modifies the European Standard EN 62820-1-1:2016; it was approved by CENELEC on 2021-11-11. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN 62820-1-1:2016/A11:2021 (E)

European foreword

This document (EN 62820-1-1:2016/A11:2021) has been prepared by WG 15, "Audio and video door entry apparatus" of CLC/TC 79 "Alarm systems".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-11-11
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2024-11-11

This document amends EN 62820-1-1:2016.

This document introduces references to the safety standard EN 62368-1, since EN 60065 and EN 60950-1 are withdrawn and no longer in the list of the Harmonized Standards for the Low Voltage Directive.

Futhermore this document includes some corrections and explanations regarding the OLR calculation and overall sensitivity paragraphs.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

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1 Modification to “Contents”

Replace the Annex D and Table D.1 in the table of contents by the following:

"Annex D (normative) Safety requirements correspondence in IEC 60065 or IEC 60950-1 or EN 62368-1...39"

"Table D.1 – Correspondence between IEC 60065 and IEC 60950-1 and EN 62368-1.....39"

2 Modifications to Clause 2, “Normative references”

Add the following standard to the list:

“

EN 62368-1:2014, *Audio/video, information and communication technology equipment - Part 1: Safety requirements*”

Add the following note:

“

NOTE At the moment, a new EN version of IEC 62368-1 is in process of becoming a Harmonized Standard for Low Voltage and Radio Equipment Directives. It is proposed to use it when it will be a Harmonized Standard instead of the EN 62368-1:2014 edition here introduced.”

3 Modifications to subclause 5.4, “Safety requirements”

Replace the first paragraph by the following:

“Equipment shall comply with the following safety requirements specified in IEC 60065 or IEC 60950-1 or EN 62368-1.”

Replace the NOTE at bottom of 5.4 by the following:

“

NOTE Refer to Table D.1 for safety requirements correspondence in IEC 60065 or IEC 60950-1 or EN 62368-1.”

4 Modification to subclause 6.6, “Safety test”

Replace the text of the subclause by the following:

“Test methods specified in IEC 60065 or IEC 60950-1 or EN 62368-1 shall be followed. The test results shall comply with the requirements set forth in 5.4.”

5 Modification to subclause A.3.1, “Measurement of sound pressure P_m at the MRP”

Replace the text of the subclause before the figure by the following:

“Measurement should be performed in accordance with Figure A.1. Install a standard half-inch sound-pressure microphone in a place 25 mm right in front of the lip ring of the artificial mouth (MRP) in a 90° incidence direction, to measure the test signals at artificial mouth (P.50 of artificial voices or P.501 of real-speech signals). Reproduce the full test signal and adjust the software or equalizer of the testing system in order to make the average sound pressure P_m to be -4,7 dBPa at the MRP in the full range of 200 Hz to 4 000 Hz. Collect the average level of P_{mi} for each band (see Table A.1: bands 4 to 17) from the full test signal, in these conditions.”

6 Modification to subclause A.3.4.1, “Calculations of the OLR at the hands-free EUT”

Replace the text and Formulae (A.1) and (A.2) by the following (where the missing index “i” was added to S_{r0} , P_o and P_m):

“Determine the sensitivity/frequency characteristic S_{roi} of the hands-free EUT by using Formula (A.1):

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$$S_{roi} = 20 \lg \left(\frac{P_{oi}}{P_{mi}} \right) \text{ dB (relative to 1 Pa / Pa)} \quad (\text{A.1})$$

$$OLR = -\frac{10}{m} \times \lg \sum_{i=4}^{17} 10^{\frac{m}{10}(S_{roi} - W_{oi})} \quad (\text{A.2})$$

7 Modification to subclause A.3.4.2, "Calculations of the OLR at the handset EUT"

Replace the text and Formulae (A.3) and (A.4) by the following (where the missing index "i" was added to S_{re} , P_e and P_m):

"Determine sensitivity/frequency characteristic S_{rei} of the handset EUT by using Formula (A.3):

$$S_{rei} = 20 \lg \left(\frac{P_{ei}}{P_{mi}} \right) \text{ dB (relative to 1 Pa / Pa)} \quad (\text{A.3})$$

$$OLR = -\frac{10}{m} \times \lg \sum_{i=4}^{17} 10^{\frac{m}{10}(S_{rei} - W_{oi} - L_{Ei})} \quad (\text{A.4})$$

8 Modification to Table A.1, "Factors for OLR"

Replace the header of the third column (Overall weighting factor W_o) with "Weighting factor W_{oi} "

Replace the header of the fourth column (Leakage correction factor L_E) with "Leakage correction factor L_{Ei} "

Replace in the Note, " L_E " with " L_{Ei} "

The result of those modifications is the following:

Table A.1 — Factors for OLR

Frequency band serial No. /l	Mid-frequency /Hz	Weighting factor W_{oi}	Leakage correction factor L_{Ei}
4	200	66,1	8,4
5	250	60,7	4,9
6	315	68,5	1,0
7	400	55,6	-0,7
8	500	66,9	-2,2
9	630	63,3	-2,6
10	800	63,4	-3,2
11	1 000	65,3	-2,3
12	1 250	73,1	-1,2
13	1 600	70,1	-0,1

Frequency band serial No. /I	Mid-frequency /Hz	Weighting factor W_{oi}	Leakage correction factor L_{Ei}
14	2 000	82,0	3,6
15	2 500	78,6	7,4
16	3 150	95,4	6,7
17	4 000	76,9	8,9

NOTE If the artificial ear has the leakage compensation then the L_{Ei} parameter is set to zero."

9 Modification to subclause A.4.1, "Test of the overall sensitivity at the hands-free EUT"

Replace the paragraph before the note with the following (the missing index "i" was added to S_{ro} , P_o and P_m):

"Perform the measurement in accordance with A.3.2. Determine the sensitivity/frequency characteristics S_{roi} of the hands-free EUT by using Formula (A.1). Record the sound pressure fluctuations of P_{oi} relative to P_{mi} . Within the range of 500 Hz to 3 400 Hz, the test results shall comply with the requirements set forth in 5.1.3 a)."

10 Modification to subclause A.4.2, "Test of the overall sensitivity at the handset EUT"

Replace the paragraph before the note with the following (the missing index "i" was added to S_{re} , P_e and P_m):

"Perform the measurement in accordance with A.3.3. Determine the sensitivity/frequency characteristics S_{rei} of the handset EUT by using Formula (A.3). Record the sound pressure fluctuations of P_{ei} relative to P_{mi} . Within the range of 500 Hz to 3 400 Hz, the test results shall comply with the requirements set forth in 5.1.3 b)."

11 Modification to Annex D, "Safety requirements correspondence in IEC 60065 or IEC 60950-1"

Replace the title of Annex D with: "Safety requirements correspondence in IEC 60065 or IEC 60950-1 or EN 62368-1".

Replace the paragraph and Table D.1 by the following:

"

The safety requirements correspondence in IEC 60065 or IEC 60950-1 or EN 62368-1 are shown in Table D.1.

Table D.1 — Correspondence between IEC 60065 and IEC 60950-1 and EN 62368-1

Item	Specified in IEC 60065:2014	Specified in IEC 60950-1:2005	Specified in EN 62368-1:2014
Marking and instructions	5 Marking and instructions	1.7 Markings and instructions	4.1.15 Markings and instructions Annex F (normative) Equipment markings, instructions and instructional safeguards
Constructional requirements with regard to the protection against electric shock	8 Constructional requirements with regard to the protection against electric shock	2 Protection from hazards	5 Electrically caused injury 5.3 Protection against electrical energy sources 5.5 Components as safeguards