



SLOVENSKI STANDARD
SIST EN 62820-1-1:2017/oprAA:2021
01-julij-2021

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

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/prAA

[SIST EN 62820-1-1:2017/oprAA:2021](https://standards.iteh.ai/catalog/standards/sist/fl179a-3ecc-4337-a0e9-1e50581617cd/sist-en-62820-1-1-2017-opraa-2021)

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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
NORME EUROPÉENNE
EUROPÄISCHE NORM

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EN 62820-1-1:2016

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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 draft amendment prAA, if approved, will modify the European Standard EN 62820-1-1:2016; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2021-07-16.

It has been drawn up by CLC/TC 79.

If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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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/prA1:2021 (E)**1 European foreword**

2 This document (EN 62820-1-1:2016/prA1:2021) has been prepared by WG 15, "Audio and video door entry
3 apparatus" of CLC/TC 79 "Alarm systems".

4 This document is currently submitted to the Enquiry.

5 The following dates are proposed:

- latest date by which the existence of this document has to be announced at national level (doa) dor + 6 months
- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) dor + 12 months
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) dor + 36 months (to be confirmed or modified when voting)

6 Amendment 1 to this EN 62820-1-1:2016 introduces references to the safety standard IEC/EN 62368-1, since
7 the EN 60065 and EN 60950-1 are withdrawn and no longer in the list of the Harmonized Standards for the
8 Low Voltage Directive.

9 Furthermore this document includes some corrections and explanations regarding the OLR calculation and
10 overall sensitivity paragraphs.

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11 **1 Modification to “Contents”**

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

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

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

15 **2 Modifications to Clause 2, “Normative references”**

16 *Add the following standard to the list:*

17 “

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

20 *Add the following note:*

21 “

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

25 **3 Modifications to subclause 5.4, “Safety requirements”**

26 *Replace the first phrase just after the title by the following:*

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

29 *Replace the NOTE at bottom of 5.4 by the following:*

30 “

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

32 **4 Modification to subclause 6.6, “Safety test”**

33 *Replace the text of the subclause by the following:*

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

36 **5 Modification to subclause A.3.1, “Measurement of sound pressure P_m at the 37 MRP”**

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

39 “Measurement should be performed in accordance with Figure A.1. Install a standard half-inch sound-pressure
40 microphone in a place 25 mm right in front of the lip ring of the artificial mouth (MRP) in a 90° incidence
41 direction, to measure the test signals at artificial mouth (P.50 of artificial voices or P.501 of real-speech signals).
42 Reproduce the full test signal and adjust the software or equalizer of the testing system in order to make the
43 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
44 average level of P_{mi} for each band (see Table A.1: bands 4 to 17) from the full test signal, in these conditions.”

45 **6 Modification to subclause A.3.4.1, “Calculations of the OLR at the hands-free 46 EUT”**

47 *Replace the text and the Formulae (A.1) and (A.2) by the following (where were added the missing index “i” to*
48 S_{ro} P_o and P_m)

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

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$$50 \quad S_{roi} = 20 \lg \left(\frac{P_{oi}}{P_{mi}} \right) \text{dB (relative to 1 Pa / Pa)} \quad (\text{A.1})$$

$$51 \quad OLR = -\frac{10}{m} \times \lg \sum_{i=4}^{17} 10^{\frac{m}{10}(S_{roi}-W_{oi})} \quad (\text{A.2})$$

52 **7 Modification to subclause A.3.4.2, “Calculations of the OLR at the handset EUT”**

53 *Replace the text and the Formulae (A.3) and (A.4) by the following (where were added the missing index “i” to*
 54 *S_{re} P_e and P_m)*

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

$$56 \quad S_{rei} = 20 \lg \left(\frac{P_{ei}}{P_{mi}} \right) \text{dB (relative to 1 Pa / Pa)} \quad (\text{A.3})$$

$$57 \quad OLR = -\frac{10}{m} \times \lg \sum_{i=4}^{17} 10^{\frac{m}{10}(S_{rei}-W_{oi}-L_{Ei})} \quad (\text{A.4})$$

58 **8 Modification to Table A.1, “Factors for OLR”**

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

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

61 *Replace in the Note, L_E with L_{Ei}*

62 *The result of those modifications is the following:*

63 “ <https://standards.iteh.ai/catalog/standards/sist/flfa179a-3ecc-4337-a0e9-1e50581617cd/sist-en-62820-1-1-2017-opraa-2021>

64 **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
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

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

66 **9 Modification to subclause A.4.1, “Test of the overall sensitivity at the hands-free**
67 **EUT”**

68 *Replace the paragraph before the note with the following (the missing index “i” was added to S_{rO} P_O and P_m)*

69 “Perform the measurement in accordance with A.3.2. Determine the sensitivity/frequency characteristics S_{rOj}
70 of the hands-free EUT by using Formula (A.1). Record the sound pressure fluctuations of P_{Oj} relative to P_{mi} .
71 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).”

72 **10 Modification to subclause A.4.2, “Test of the overall sensitivity at the handset**
73 **EUT”**

74 *Replace the paragraph before the note with the following (the missing index “i” was added to S_{rE} P_e and P_m)*

75 “Perform the measurement in accordance with A.3.3. Determine the sensitivity/frequency characteristics S_{rEj}
76 of the handset EUT by using Formula (A.3). Record the sound pressure fluctuations of P_{ej} relative to P_{mi} .
77 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).”

78 **11 Modification to Annex D, “Different requirements between grade 1 and grade 2”**

79 *Replace the text and Table D.1 by the following:*

80 “Safety requirements correspondence in IEC 60065 or IEC 60950-1 or IEC 62368-1.

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

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

Item	Specified in IEC 60065:2014	Specified in IEC 60950-1:2005	Specified in IEC 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 2.1 Protection from electric shock and energy hazards	5 Electrically caused injury 5.3 Protection against electrical energy sources 5.5 Components as safeguards 5.6 Protective conductor
Electric shock hazard under normal operating conditions	9 Electric shock hazard under normal operating conditions	[...] 2.1.1.4 Access to hazardous voltage circuit wiring [...] 2.2.2 Voltages under normal conditions 2.2.3 Voltages under fault conditions [...] 2.9.4 Separation from hazardous voltages	5.7 Prospective touch voltage, touch current and protective conductor current
Electrical insulation	10 Insulation requirements	2.9 Electrical insulation	5.4 Insulation materials and requirements