



SLOVENSKI STANDARD
oSIST prEN ISO 80601-2-70:2025
01-februar-2025

Medicinska električna oprema - 2-70. del: Posebne zahteve za osnovno varnost in bistvene lastnosti opreme za zdravljenje prenehanja dihanja v spanju (ISO/DIS 80601-2-70:2024)

Medical electrical equipment - Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment (ISO/DIS 80601-2-70:2024)

Medizinische elektrische Geräte - Teil 2-70: Besondere Festlegungen für die Sicherheit und die wesentlichen Leistungsmerkmale von Schlafapnoe-Atemtherapiegeräten (ISO/DIS 80601-2-70:2024)

Appareils électromédicaux - Partie 2-70: Exigences particulières pour la sécurité de base et les performances essentielles de l'équipement de thérapie respiratoire pour l'apnée du sommeil (ISO/DIS 80601-2-70:2024)

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ICS:

11.040.10	Anestezijska, respiratorna in reanimacijska oprema	Anaesthetic, respiratory and reanimation equipment
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oSIST prEN ISO 80601-2-70:2025

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DRAFT International Standard

ISO/DIS 80601-2-70

Medical electrical equipment — Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment

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This document is circulated as received from the committee secretariat.

This draft is submitted to a parallel vote in ISO and in IEC.

ISO/CEN PARALLEL PROCESSING

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106 Foreword

107 ISO (the International Organization for Standardization) is a worldwide federation of national standards
108 bodies (ISO member bodies). The work of preparing International Standards is normally carried out
109 through ISO technical committees. Each member body interested in a subject for which a technical
110 committee has been established has the right to be represented on that committee. International
111 organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO
112 collaborates closely with the International Electrotechnical Commission (IEC) on all matters of
113 electrotechnical standardization.

114 The procedures used to develop this document and those intended for its further maintenance are
115 described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the
116 different types of ISO documents should be noted. This document was drafted in accordance with the
117 editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

118 Attention is drawn to the possibility that some of the elements of this document may be the subject of
119 patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any
120 patent rights identified during the development of the document will be in the Introduction and/or on
121 the ISO list of patent declarations received (see www.iso.org/patents).

122 Any trade name used in this document is information given for the convenience of users and does not
123 constitute an endorsement.

124 For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and
125 expressions related to conformity assessment, as well as information about ISO's adherence to the World
126 Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see
127 www.iso.org/iso/foreword.html.

128 This document was prepared jointly by Technical Committee ISO/TC 121, *Anaesthetic and respiratory*
129 *equipment*, Subcommittee SC 3, *Respiratory devices and related equipment used for patient care*, and
130 Technical Committee IEC/TC 62, *Medical equipment, software, and systems*, Subcommittee SC D, *Particular*
131 *medical equipment, software, and systems*, in collaboration with the European Committee for
132 Standardization (CEN) Technical Committee CEN/TC 215, *Respiratory and anaesthetic equipment*, in
133 accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

134 This third edition cancels and replaces the second edition (ISO 80601-2-70:2020), which has been
135 technically revised.

136 The main changes compared to the previous edition are as follows:

- 137 — updated references;
- 138 — updated the audible acoustic energy requirements; and
- 139 — updated the maximum flowrate test method.

140 A list of all parts in the ISO 80601 series and the IEC 80601 series can be found on the ISO website.

141 Any feedback or questions on this document should be directed to the user's national standards body. A
142 complete listing of these bodies can be found at www.iso.org/members.html.

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143 **Introduction**

144 Sleep apnoea is a chronic medical condition where the *patient* repeatedly stops breathing during sleep.
 145 These episodes typically last 10 s or more and cause the oxygen levels in the blood to drop. It can be
 146 caused by obstruction of the upper airway (obstructive sleep apnoea or OSA) or by a failure of the brain
 147 to initiate a breath (central sleep apnoea).

148 NOTE *Sleep apnoea breathing therapy equipment* is intended for the treatment of obstructive sleep apnoea and
 149 not central sleep apnoea.

150 Sleep apnoea, if untreated, can cause and worsen other medical conditions, including hypertension, heart
 151 failure and diabetes^[22].

152 Hypopnoea refers to a transient reduction of airflow, often while the *patient* is asleep, that lasts for at
 153 least 10 s, shallow breathing. It also results in arousal or can cause oxygen saturation to drop. Hypopnoea
 154 is less severe than apnoea. It is commonly due to partial obstruction of the upper airway^[20].

155 Awareness of the *risks* associated with obstructive sleep apnoea has grown significantly. As a result, the
 156 use of *sleep apnoea breathing therapy equipment* to treat obstructive sleep apnoea has become common.

157 This document covers *basic safety* and *essential performance* requirements needed to protect *patients* in
 158 the use of this *ME equipment*.

159 This document covers *sleep apnoea breathing therapy equipment* for *patient* use. ISO 17510 applies to
 160 *masks* and *accessories* used to connect *sleep apnoea breathing therapy equipment* to the *patient*.
 161 Figure AA.1 shows this diagrammatically.

162 In this document, the following print types are used:

163 — Requirements and definitions: roman type

164 — *Terms defined in clause 3 of the general standard, in this document or as noted: italic type;*

165 — Informative material appearing outside of tables, such as notes, examples and references: in smaller type.
 166 Normative text of tables is also in a smaller type;

167 In referring to the structure of this document, the term.

168 — “clause” means one of the four numbered divisions within the table of contents, inclusive of all
 169 subdivisions (e.g. Clause 201 includes subclauses 201.1, 201.2, etc.);

170 — “subclause” means a numbered subdivision of a clause (e.g. 201.101, 201.102 and 201.102.1 are all
 171 subclauses of Clause 201).

172 References to clauses within this document are preceded by the term “Clause” followed by the clause
 173 number. References to subclauses within this document are by number only.

174 In this document, the conjunctive “or” is used as an “inclusive or” so a statement is true if any combination
 175 of the conditions is true.

176 For the purposes of this document, the auxiliary verb:

177 — “shall” indicates a requirement;

178 — “should” indicates a recommendation;

179 — “may” indicates a permission;

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- 180 – "can" is used to describe a possibility or capability; and
181 – "must" is used to express an external constraint.
182 Annex C contains a guide to the *marking* and labelling requirements in this document.

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Medical electrical equipment —

Part 2-70:

Particular requirements for the basic safety and essential performance of sleep apnoea breathing therapy equipment

201.1 Scope, object and related standards

NOTE There is guidance or rationale for this subclause contained in Clause AA.2

IEC 60601-1:2005+AMD1:2012+AMD2:2020, Clause 1 applies, except as follows:

NOTE The general standard is IEC 60601-1:2005+AMD1:2012+AMD2:2020.

201.1.1 Scope

NOTE 1 There is guidance or rationale for this subclause contained in Clause AA.2

IEC 60601-1:2005+AMD1:2012+AMD2:2020, 1.1 is replaced by:

This document is applicable to the *basic safety and essential performance of sleep apnoea breathing therapy equipment*, hereafter referred to as *ME equipment*, intended to alleviate the symptoms of *patients* who suffer from obstructive sleep apnoea by delivering a therapeutic breathing pressure to the respiratory tract of the *patient*. *Sleep apnoea breathing therapy equipment* is intended for use in the *home healthcare environment* by *lay operators* as well as in professional healthcare institutions.

Sleep apnoea breathing therapy equipment is not considered to utilize a *physiologic closed-loop-control system* unless it uses a physiological *patient* variable to adjust the therapy settings.

This document excludes *sleep apnoea breathing therapy equipment* intended for use with neonates.

This document is applicable to *ME equipment* or an *ME system* intended for those *patients* who are not dependent on *artificial ventilation*. This document is not applicable to *ME equipment* or an *ME system* intended for those *patients* who are dependent on *artificial ventilation* such as *patients* with central sleep apnoea.

This document is also applicable to those *accessories* intended by their *manufacturer* to be connected to *sleep apnoea breathing therapy equipment*, where the characteristics of those *accessories* can affect the *basic safety* or *essential performance* of the *sleep apnoea breathing therapy equipment*.

Masks and application *accessories* intended for use during sleep apnoea breathing therapy are additionally addressed by ISO 17510. Refer to Figure AA.1 for items covered further under this document.

If a clause or subclause is specifically intended to be applicable to *ME equipment* only, or to *ME systems* only, the title and content of that clause or subclause will say so. If that is not the case, the clause or subclause applies both to *ME equipment* and to *ME systems*, as relevant.

Hazards inherent in the intended physiological function of *ME equipment* or *ME systems* within the scope of this document are not covered by specific requirements in this document except in 7.2.13 and 8.4.1 of the general standard.

NOTE 2 See also 4.2 of the general standard.

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218 This document does not specify the requirements for:

- 219 – ventilators or *accessories* intended for critical care ventilators for ventilator-dependent *patients*, which are
220 given in ISO 80601-2-12.
- 221 – ventilators or *accessories* intended for anaesthetic applications, which are given in ISO 80601-2-13.
- 222 – ventilators or *accessories* intended for home care ventilators for ventilator-dependent *patients*, which are
223 given in ISO 80601-2-72.
- 224 – ventilators or *accessories* intended for emergency and transport, which are given in ISO 80601-2-84.
- 225 – ventilators or *accessories* intended for home-care ventilatory support, which are given in ISO 80601-2-79
226 and ISO 80601-2-80.
- 227 – high-frequency jet ventilators (HFJVs) or high-frequency oscillatory ventilators (HFOVs), which are given
228 in ISO 80601-2-87.
- 229 – high-frequency oscillatory ventilators (HFOVs)^[23];
- 230 – respiratory high flow equipment, which are given in ISO 80601-2-90;
- 231 NOTE 3 ISO 80601-2-80 ventilatory support equipment can incorporate high-flow therapy operational mode, but
232 such a mode is only for spontaneously breathing *patients*.
- 233 – user-powered resuscitators, which are given in ISO 10651-4;
- 234 – gas-powered emergency resuscitators, which are given in ISO 10651-5;
- 235 – oxygen therapy constant flow *ME equipment*; and
- 236 – cuirass or “iron-lung” *ventilation equipment*.

237 201.1.2 Object

238 IEC 60601-1:2005+AMD1:2012+AMD2:2020, 1.2 is replaced by: <https://standards.iteh.ai/catalog/standards/sist/bb1700cc-08b8-442a-a02b-779b38f7dfca/osist-pren-iso-80601-2-70-2025>

239 The object of this document is to establish particular *basic safety* and *essential performance* requirements for
240 *sleep apnoea breathing therapy equipment* (as defined in 201.3.259).

241 NOTE 1 This document has been prepared to address the relevant *essential principles*^[17] and labelling principles^[18] guidances of the
242 International Medical Devices Regulators Forum (IMDRF) as indicated in Annex CC.

243 NOTE 3 This document has been prepared to address the relevant general safety and performance requirements of European
244 regulation (EU) 2017/745^[16].

245 201.1.3 Collateral standards

246 IEC 60601-1:2005+AMD1:2012+AMD2:2020, 1.3 applies with the following addition:

247 IEC 60601-1-2:2014+AMD1:2020 and IEC 60601-1-6:2010+AMD1:2013+AMD2:2020 apply as modified in
248 Clauses 202, 206 and 211 respectively. IEC 60601-1-3 and IEC 60601-1-9 do not apply. All other published
249 collateral standards in the IEC 60601-1 series apply as published.

250 201.1.4 Particular standards

251 *Replacement:*

252 In the IEC 60601 series, particular standards define *basic safety* and *essential performance* requirements, and
253 may modify, replace or delete requirements contained in the general standard and collateral standards as
254 appropriate for the particular *ME equipment* under consideration.

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255 A requirement of a particular standard takes priority over the general standard.

256 For brevity, IEC 60601-1+AMD1:2012+AMD2:2020 is referred to in this document as the general standard.
257 Collateral standards are referred to by their document number.

258 The numbering of clauses and subclauses of this document corresponds to that of the general standard with
259 the prefix "201" (e.g. 201.1 in this document addresses the content of Clause 1 of the general standard) or
260 applicable collateral standard with the prefix "20x", where x is the final digit(s) of the collateral standard
261 document number (e.g. 202.4 in this document addresses the content of Clause 4 of the IEC 60601-1-2 collateral
262 standard, 203.4 in this document addresses the content of Clause 4 of the IEC 60601-1-3 collateral standard,
263 etc.). The changes to the text of the general standard are specified by the use of the following words:

264 "Replacement" means that the clause or subclause of the general standard or applicable collateral standard is
265 replaced completely by the text of this document.

266 "Addition" means that the text of this document is additional to the requirements of the general standard or
267 applicable collateral standard.

268 "Amendment" means that the clause or subclause of the general standard or applicable collateral standard is
269 amended as indicated by the text of this document.

270 Subclauses, figures or tables which are additional to those of the general standard are numbered starting from
271 201.101. However, due to the fact that definitions in the general standard are numbered 3.1 through 3.139,
272 additional definitions in this document are numbered beginning from 201.3.201. Additional annexes are
273 lettered AA, BB, etc., and additional items aa), bb), etc.

274 Subclauses, figures or tables which are additional to those of a collateral standard are numbered starting from
275 20x, where "x" is the number of the collateral standard, e.g. 202 for IEC 60601-1-2, 211 for IEC 60601-1-11, etc.

276 The term "this document" is used to make reference to the general standard, any applicable collateral standards
277 and this document taken together.

278 Where there is no corresponding clause or subclause in this document, the clause or subclause of the general
279 standard or applicable collateral standard, although possibly not relevant, applies without modification; where
280 it is intended that any part of the general standard or applicable collateral standard, although possibly relevant,
281 is not to be applied, a statement to that effect is given in this document.

282 **201.2 Normative references**

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

286 IEC 60601-1:2005+AMD1:2012+AMD2:2020, Clause 2 applies, except as follows:

287 *Addition:*

288 ISO 3744:2010, *Acoustics — Determination of sound power levels and sound energy levels of noise sources using*
289 *sound pressure — Engineering methods for an essentially free field over a reflecting plane*

290 ISO 4871:1996, *Acoustics — Declaration and verification of noise emission values of machinery and equipment*

291 ISO 5356-1:2015, *Anaesthetic and respiratory equipment — Conical connectors — Cones and sockets*

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292 ISO 14937:2009, *Sterilization of health care products — General requirements for characterization of a*
 293 *sterilizing agent and the development, validation and routine control of a sterilization process for medical devices*

294 ISO 17510:—¹, *Medical devices — Sleep apnoea breathing therapy — Masks and application accessories*

295 ISO 17664-1:2021, *Processing of health care products — Information to be provided by the medical device*
 296 *manufacturer for the processing of medical devices — Part 1: Critical and semi-critical medical devices*

297 ISO 17664-2:2021, *Processing of health care products — Information to be provided by the medical device*
 298 *manufacturer for the processing of medical devices — Part 2: Non-critical medical devices*

299 ISO 18562-1:2024, *Biocompatibility evaluation of breathing gas pathways in healthcare applications — Part 1:*
 300 *Evaluation and testing within a risk management process*

301 ISO 20417:—², *Medical devices — Information to be supplied by the manufacturer*

302 ISO 23328-1:2003, *Breathing system filters for anaesthetic and respiratory use — Part 1: Salt test method to*
 303 *assess filtration performance*

304 ISO 23328-2:2002, *Breathing system filters for anaesthetic and respiratory use — Part 2: Non-filtration aspects*

305 ISO 80369-1:—³, *Small-bore connectors for liquids and gases in healthcare applications — Part 1: General*
 306 *requirements*

307 ISO 80601-2-74:—⁴, *Medical electrical equipment — Part 2-74: Particular requirements for basic safety and*
 308 *essential performance of respiratory humidifying equipment*

309 IEC 81001-5-1:2021, *Health software and health IT systems safety, effectiveness and security — Part 5-1:*
 310 *Security — Activities in the product life cycle*

311 IEC Guide 115:2023, *Application of uncertainty of measurement to conformity assessment activities in the*
 312 *electrotechnical sector*

313 **201.3 Terms and definitions**

314 For the purposes of this document, the terms and definitions given in
 315 IEC 60601-1:2005+AMD1:2012+AMD2:2020, and the following apply.

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

317 — ISO Online browsing platform: available at <https://www.iso.org/obp>

318 — IEC Electropedia: available at <http://www.electropedia.org/>

319 *Addition:*

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