

**SLOVENSKI STANDARD**  
**SIST EN ISO 80601-2-56:2017**  
**01-november-2017**

**Nadomešča:**  
**SIST EN ISO 80601-2-56:2013**

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**Medicinska električna oprema - 2-56. del: Posebne zahteve za osnovno varnost in bistvene lastnosti kliničnih termometrov za merjenje telesne temperature (ISO 80601-2-56:2017)**

Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement (ISO 80601-2-56:2017)

**iTeh STANDARD PREVIEW**

Medizinische elektrische Geräte - Teil 2-56: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von medizinischen Thermometern zum Messen der Körpertemperatur (ISO 80601-2-56:2017)  
<https://standards.iteh.ai/catalog/standards/sist/db3ae16e-78cd-4bc6-b152-02fdeb7bf15f/sist-en-iso-80601-2-56-2017>

Appareils électromédicaux - Partie 2-56: Exigences particulières relatives à la sécurité fondamentale et aux performances essentielles des thermomètres médicaux pour mesurer la température de corps (ISO 80601-2-56:2017)

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**Ta slovenski standard je istoveten z: EN ISO 80601-2-56:2017**

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**ICS:**

11.040.55	Diagnostična oprema	Diagnostic equipment
17.200.20	Instrumenti za merjenje temperature	Temperature-measuring instruments

**SIST EN ISO 80601-2-56:2017** en

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN ISO 80601-2-56**

July 2017

ICS 11.040.55

Supersedes EN ISO 80601-2-56:2012

**English Version**

**Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement  
(ISO 80601-2-56:2017)**

Appareils électromédicaux - Partie 2-56: Exigences particulières relatives à la sécurité fondamentale et aux performances essentielles des thermomètres médicaux pour mesurer la température de corps (ISO 80601-2-56:2017)

Medizinische elektrische Geräte - Teil 2-56: Besondere Festlegungen für die Sicherheit einschließlich der wesentlichen Leistungsmerkmale von medizinischen Thermometern zum Messen der Körpertemperatur (ISO 80601-2-56:2017)

This European Standard was approved by CEN on 28 June 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions [http://www.cen.eu/standards/standard\\_en.html?ref=157sist-en-iso-80601-2-56-2017](http://www.cen.eu/standards/standard_en.html?ref=157sist-en-iso-80601-2-56-2017)

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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN ISO 80601-2-56:2017) has been prepared by Technical Committee ISO/TC 121 "Anaesthetic and respiratory equipment" in collaboration with Technical Committee CEN/TC 205 "Non-active medical devices" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by January 2018, and conflicting national standards shall be withdrawn at the latest by July 2020.

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

This document supersedes EN ISO 80601-2-56:2012.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

According to the CEN-CENELEC Internal Regulations the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom. <https://standards.iteh.ai/catalog/standards/sist/db3ae16e-78cd-4bc6-b152-02fdeb7b15f/sist-en-iso-80601-2-56-2017>

The following referenced documents are indispensable for the application of this document. For undated references, the latest edition of the referenced document (including any amendments) applies. For dated references, only the edition cited applies. However, for any use of this standard 'within the meaning of Annex ZA', the user should always check that any referenced document has not been superseded and that its relevant contents can still be considered the generally acknowledged state-of-art.

When an IEC or ISO standard is referred to in the ISO standard text, this shall be understood as a normative reference to the corresponding EN standard, if available, and otherwise to the dated version of the ISO or IEC standard, as listed below.

NOTE The way in which these referenced documents are cited in normative requirements determines the extent (in whole or in part) to which they apply.

**Table 1 — Correlations between undated normative references and dated EN and ISO standards**

<b>Normative references as listed in Clause 201.2 of the ISO standard</b>	<b>Equivalent dated standard</b>	
	EN	ISO or IEC
IEC 60601-1	EN 60601-1:2006 + Cor.:2010 + A1:2013	IEC 60601-1:2005 + Cor.:2006 + Cor.:2007 + A1:2012
IEC 60601-1-2	EN 60601-1-2:2015	IEC 60601-1-2:2014
IEC 60601-1-6	EN 60601-1-6:2010 + A1:2015	IEC 60601-1-6:2010 + A1:2013
IEC 60601-1-8	EN 60601-1-8:2007 + Cor.:2010 + A1:2013	IEC 60601-1-8:2006 + A1:2012
IEC 60601-1-11	EN 60601-1-11:2015	IEC 60601-1-11:2015
IEC 60601-1-12	EN 60601-1-12:2015	IEC 60601-1-12:2014
IEC 62366-1	EN 62366-1:2015	IEC 62366-1:2015
ISO 14155:2011	EN ISO 14155:2011 + AC:2011	ISO 14155:2011 + AC:2011
ISO 14937	EN ISO 14937:2009	ISO 14937:2009
ISO 15223-1	EN ISO 15223-1:2016 <a href="https://standards.itenai.org/standard/jst/113/16-78414bc6-b152-1:2016">https://standards.itenai.org/standard/jst/113/16-78414bc6-b152-1:2016</a>	ISO 15223-1:2016
ISO 17664	EN ISO 17664:2004	ISO 17664:2004

### Endorsement notice

The text of ISO 80601-2-56:2017 has been approved by CEN as EN ISO 80601-2-56:2017 without any modification.

## Annex ZA (informative)

### **Relationship between this European Standard and the essential requirements of Directive 93/42/EEC [OJ L 169] aimed to be covered**

This European Standard has been prepared under a Commission's standardization request M/023 concerning the development of European Standards related to medical devices to provide one voluntary means of conforming to essential requirements of Council Directive 93/42/EEC of 14 June 1993 concerning medical devices [OJ L 169].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

**NOTE 1** Where a reference from a clause of this standard to the risk management process is made, the risk management process needs to be in compliance with Directive 93/42/EEC as amended by 2007/47/EC. This means that risks have to be reduced 'as far as possible', 'to a minimum', 'to the lowest possible level', 'minimized' or 'removed', according to the wording of the corresponding essential requirement.

**NOTE 2** The manufacturer's policy for determining acceptable risk must be in compliance with Essential Requirements 1, 2, 5, 6, 7, 8, 9, 11 and 12 of the Directive.

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**NOTE 3** This Annex ZA is based on normative references according to the table of references in the European foreword, replacing the references in the core text.

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**NOTE 4** When an Essential Requirement does not appear in Table ZA.1, it means that it is not addressed by this European Standard.

**Table ZA.1 — Correspondence between this European Standard and Annex I of Directive 93/42/EEC [OJ L 169]**

Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
7.2	201.11.6.6	ER 7.2 is covered only in respect to the patient, operator and user.
8.7	201.7.2.1.101 c)	
9.1	201.7.9.2.101 f), 201.16, 201.101.1 2 <sup>nd</sup> para, 201.102.1 3 <sup>rd</sup> para, 201.103, 201.103.2	ER 9.1 is covered by 201.103 in respect of probes, probe cable extenders and probe covers only.
9.2	201.9, 201.12.1.101, 201.12.2, 201.15, 202	ER 9.2 is covered by the listed standard clauses as follows: — 201.9 to the extent set out in the specified EN version of IEC 60601-1:2005+A1, Clause 9, — 201.12.1.101 for accuracy of controls and

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Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
		<p>instruments only,</p> <ul style="list-style-type: none"> <li>— 201.12.2 for display size and display integrity only,</li> <li>— 201.15 to the extent set out in the specified EN version of IEC 60601-1:2005+A1, Clause 15,</li> <li>— 202 Electromagnetic Compatibility.</li> </ul> <p>The 4th indent of ER 9.2 is not covered.</p>
9.3	201.13	ER 9.3 is covered by 201.13 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 13 only.
10.1	201.7.9.2.101 d), 201.7.9.2.101 e), 201.12, 201.101, 201.102, 201.103	
10.2	201.12.2	
10.3	201.7 <b>iTeh STANDA</b> <b>(standard</b> <b>ds.iteh.ai)</b>	ER 10.3 is covered by 201.7.4.3.101 and 201.7.9.2.101 e)
11.3.1	202	
12.1	201.14 <small>SIST EN ISO 80601-2-56:2017 <a href="https://standards.iteh.ai/catalog/standards/iso-80601-2-56-2017">https://standards.iteh.ai/catalog/standards/iso-80601-2-56-2017</a></small>	ER 12.1 is covered by 201.14 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 14 only.
12.1 a)	201.14	ER 12.1 a) is covered by 201.14 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 14 only.
12.4	201.12	ER 12.4 is covered by 201.12 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 12 only. Directive Annex 1 ER 12.4 is only covered if the alarm alerts the user to situations which could lead to death or severe deterioration of the patient's state of health.
12.5	202	
12.6	201.8	ER 12.6 is covered by 201.8 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 8 only.
12.7.1	201.9	ER 12.7.1 is covered by 201.9 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 9 only.
12.7.2	201.9	ER 12.7.2 is covered by 201.9 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 9 only.

Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
12.7.3	201.9	ER 12.7.3 is covered by 201.9 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 9 only.
12.7.4	201.8, 201.11, 201.15	<p>ER 12.7.4 is covered</p> <ul style="list-style-type: none"> <li>— by 201.8 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 8 only,</li> <li>— by 201.11 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 11 only,</li> <li>— by 201.15 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 15 only.</li> </ul>
12.7.5	201.11, 201.15	<p>ER 12.7.4 is covered</p> <ul style="list-style-type: none"> <li>— by 201.11 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 11 only,</li> <li>— by 201.15 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 15 only.</li> </ul>
12.9 <a href="https://stds.iteh.ai/catalog/standards/sist-en-iso-80601-2-56-2017">https://stds.iteh.ai/catalog/standards/sist-en-iso-80601-2-56-2017</a>	201.7, 201.12.2, 201.15, 201.16, 201.17, 201.18, 201.19, 201.20, 201.21, 201.22, 201.23, 201.24, 201.25, 201.26, 201.27, 201.28, 201.29, 201.30, 201.31, 201.32, 201.33, 201.34, 201.35, 201.36, 201.37, 201.38, 201.39, 201.40, 201.41, 201.42, 201.43, 201.44, 201.45, 201.46, 201.47, 201.48, 201.49, 201.50, 201.51, 201.52, 201.53, 201.54, 201.55, 201.56, 201.57, 201.58, 201.59, 201.60, 201.61, 201.62, 201.63, 201.64, 201.65, 201.66, 201.67, 201.68, 201.69, 201.70, 201.71, 201.72, 201.73, 201.74, 201.75, 201.76, 201.77, 201.78, 201.79, 201.80, 201.81, 201.82, 201.83, 201.84, 201.85, 201.86, 201.87, 201.88, 201.89, 201.90, 201.91, 201.92, 201.93, 201.94, 201.95, 201.96, 201.97, 201.98, 201.99, 201.100, 201.101, 201.102, 201.103, 201.104, 201.105, 201.106, 201.107, 201.108, 201.109, 201.110, 201.111, 201.112, 201.113, 201.114, 201.115, 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## EN ISO 80601-2-56:2017 (E)

Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
		ER 13.3 i) is covered by 201.7.2.1.101 e) provided that the information appears on the device label.
13.3 j)	201.7	ER 13.3 j) is covered by 201.7 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only and provided that the information is shown on the device label.
13.3 k)	201.7	ER 13.3 k) is covered by 201.7 to the extent set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only and provided that the information is shown on the device label.
13.3 m)	201.7.2.1.101 c)	Presumption of conformity is only provided if symbols 4 to 7 are utilized. ER 13.3 m) is covered by 201.7.2.1.101 c) provided that the information is shown on the device label.
13.6 a)	201.7, 201.7.9.1, 201.16  <i>iTeh STANDAARD REVIEW</i> <i>(standards.iteh.ai)</i>  <a href="https://standards.iteh.ai/catalog/standards/sist/en/80601-2-56-2017">https://standards.iteh.ai/catalog/standards/sist/en/80601-2-56-2017</a>	ER 13.6 a) is covered by 201.7, 201.7.9.1, and 201.16 provided that all relevant information in ER 13.3 a) to c) and f) to n) are covered in the instructions for use.
13.6 b)	201.7.9.2.101 d), 201.7.9.2.101 e)	ER 13.6 b) is covered by 201.7.9.2.101 d) and 201.7.9.2.101 e) for the parameters listed in these clauses only.
13.6 c)	201.7, 201.7.9.2.101 f), 201.16	ER 13.6 c) is covered by — 201.7 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only, provided the information is included in the instructions for use, — 201.7.9.2.101 f) for the information set out in this clause only, — 201.16 as set out in the specified EN version of IEC 60601-1:2005 +A1:2012, Clause 16 only for the parameters listed in that standard provided the information is included in the instructions for use.
13.6 d)	201.7, 201.7.9.2.101 h), 201.16	ER 13.6 d) is covered by — 201.7 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only, provided the information is included in the instructions for use, — 201.7.9.2.101 h) for the information set out in this clause only,

Essential Requirements of Directive 93/42/EEC	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
		— 201.16 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 16 only for the parameters listed in that standard provided the information is included in the instructions for use.
13.6 f)	201.7, 201.16	ER 13.6 f) is covered by — 201.7 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only, provided the information is included in the instructions for use, — 201.16 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 16 only for the parameters listed in that standard provided the information is included in the instructions for use.
13.6 h)	201.7, 201.7.2.9.2.101 k), 201.11, 201.16  <b>iTeh STANDARD PREVIEW</b> <b>(standards.iteh.ai)</b>  <a href="https://standards.iteh.ai/catalog/standards/sist/db3a16e-78a14b6-b152-02fdeb7b15f/sist-en-iso-80601-2-56-2017">SIST EN ISO 80601-2-56-2017</a> <a href="https://standards.iteh.ai/catalog/standards/sist/db3a16e-78a14b6-b152-02fdeb7b15f/sist-en-iso-80601-2-56-2017">https://standards.iteh.ai/catalog/standards/sist/db3a16e-78a14b6-b152-02fdeb7b15f/sist-en-iso-80601-2-56-2017</a>	The requirement for information on the packaging is not addressed. ER 13.6 h) is covered by — 201.7 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only, provided the information is included in the instructions for use, — 201.7.9.2.101 k) for the information set out in this clause only, — 201.16 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 16 only for the parameters listed in that standard provided the information is included in the instructions for use.
13.6 i)	201.7	ER 13.6 i) is covered by 201.7 as set out in the specified EN version of IEC 60601-1:2005+A1:2012, Clause 7 only, provided the information is included in the instructions for use.
13.6 n)	201.7.9.2.101 j)	
13.6 p)	201.7.9.2.101 e)	

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the products falling within the scope of this standard.

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INTERNATIONAL  
STANDARD

ISO  
**80601-2-56**

Second edition  
2017-03

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**Medical electrical equipment —**

**Part 2-56:**

**Particular requirements for basic  
safety and essential performance  
of clinical thermometers for body  
temperature measurement**

**iTeh STANDARD PREVIEW**

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*Partie 2-56: Exigences particulières relatives à la sécurité  
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