



SLOVENSKI STANDARD
SIST EN 61152:1998

01-november-1998

Dimensions of metal-sheathed thermometer elements (IEC 61152:1992, modified)

Dimensions of metal-sheathed thermometer elements

Maße von metallgeschützten Thermometereinsätzen

Dimensions des éléments thermométriques sous gaine métallique

Ta slovenski standard je istoveten z: EN 61152:1994

[SIST EN 61152:1998](https://standards.iteh.ai/catalog/standards/sist/546fd056-feac-46a5-9b2d-517919b42b0a/sist-en-61152-1998)

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ICS:

17.200.20	Instrumenti za merjenje temperature	Temperature-measuring instruments
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en

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EUROPEAN STANDARD

EN 61152

NORME EUROPEENNE

EUROPÄISCHE NORM

April 1994

UDC 536.532:621.362-213

Descriptors: Measuring instrument, temperature, thermometer element,
metal sheath, dimension

ENGLISH VERSION

Dimensions of metal-sheathed thermometer elements
(IEC 1152:1992, modified)

Dimensions des éléments
thermométriques sous gaine
métallique
(CEI 1152:1992, modifiée)

Maße von
metallgeschützten
Thermometereinsätzen
(IEC 1152:1992, modifiziert)

This European Standard was approved by CENELEC on 1993-12-08.
CENELEC 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 Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat
has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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[517919b42b0a/sist-en-61152-1998](https://standards.iteh.ai/catalog/standards/sist/546fd056-feac-46a5-9b2d-517919b42b0a/sist-en-61152-1998)

FOREWORD

The CENELEC questionnaire procedure, performed for finding out whether or not the International Standard IEC 1152:1992 could be accepted without textual changes, has shown that some common modifications were necessary for the acceptance as European Standard.

Following decision D75/029 taken by the 75th Technical Board the reference document, together with the common modifications prepared by CENELEC Reporting Secretariat SR 65B, was submitted to the CENELEC members for formal vote.

The text of the draft was approved by CENELEC as EN 61152 on 8 December 1993.

The following dates were fixed:

- latest date of publication of an identical national standard (dop) 1994-12-01
- latest date of withdrawal of conflicting national standards (dow) 1994-12-01

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Endorsement notice

The text of the International Standard IEC 1152:1992 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

3 Straightness

Replace figure 3 by:

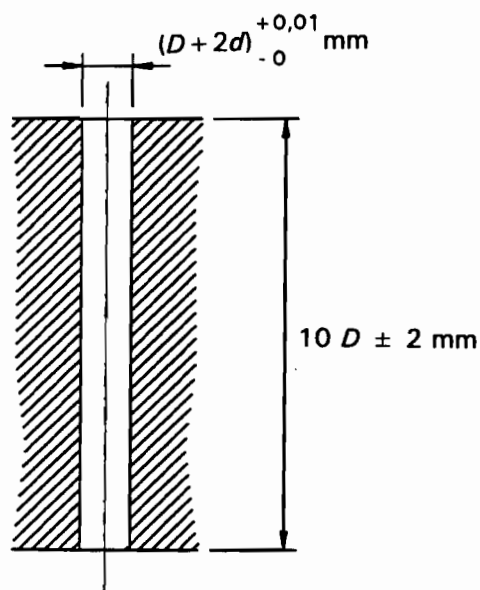


Figure 3

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NORME
INTERNATIONALE
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STANDARD

CEI
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61152

Première édition
First edition
1992-04

**Dimensions des éléments thermométriques
sous gaine métallique**

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**Dimensions of metal-sheathed thermometer
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Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**DIMENSIONS OF METAL-SHEATHED
THERMOMETER ELEMENTS**

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote international unification, the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter.

This International standard has been prepared by Sub-Committee 65B: Devices, of IEC Technical Committee No. 65: Industrial-process measurement and control.

The text of this standard is based on the following documents:

[SIST EN 61152:1998](https://standards.iteh.ai/catalog/standards/sist/546fd056-feac-46a5-9b2d-517919b4200a/sist-en-61152-1998)

[https://standards.iteh.ai/catalog/standards/sist/546fd056-feac-46a5-9b2d-](https://standards.iteh.ai/catalog/standards/sist/546fd056-feac-46a5-9b2d-517919b4200a/sist-en-61152-1998)

[517919b4200a/sist-en-61152-1998](https://standards.iteh.ai/catalog/standards/sist/546fd056-feac-46a5-9b2d-517919b4200a/sist-en-61152-1998)

Six Months' Rule	Report on Voting	Two Months' Procedure	Report on Voting
65B(CO)45	65B(CO)53	65B(CO)78	65B(CO)79

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table.

DIMENSIONS OF METAL-SHEATHED THERMOMETER ELEMENTS

1 Scope

This International Standard specifies diameters (D) for metal-sheathed thermometer elements and tolerances (d) on those diameters. The diameter of the corresponding well or pocket will be determined by the operating requirements of the particular application.

2 Diameters of thermometer elements

An element shall have a diameter corresponding to one of the nominal sizes in table 1.

Table 1 – Diameter of elements

Nominal diameter D mm	1,0 1,5 2,0 3,0 4,5	6,0 8,0 9,5	12 14 15 17,5	22,2 24 26
Tolerance $d(\pm)$ mm	← 0,05 →	← 0,10 →	← 0,25 →	← 0,30 →

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NOTE - If faster response is required, closer tolerances on the diameter may be required and should be agreed between manufacturer and user.

3 Straightness

Thermometer pockets or wells may have one of the classes of internal shape shown in figure 1 while elements may have one of the classes of external shape shown in figure 2.

In order to ensure that elements will fit into these pockets a straightness gauge is defined as in figure 3 for each nominal diameter.

An element of type A shall conform to the tolerance requirements of table 1 over a length of $10 D$ from the tip and, in addition, shall be capable of passing through the gauge over that length of the element which may be inserted in the well or pocket.

An element of type B shall meet the tolerance requirements of table 1 over the length of the tip section, or $10 \times D$, whichever is less. In addition it shall be capable of being inserted into the gauge over a length of $10 \times D$ or the length of the tip section, whichever is less.

An element of type C shall meet the tolerances of table 1 over the entire length of that portion of the element having the larger diameter and this entire length shall also pass through the gauge.