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Industrial platinum resistance thermometers and  
platinum temperature sensors

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN IEC 60751:2022 sisaldab Euroopa standardi EN IEC 60751:2022 ingliskeelset teksti.	This Estonian standard EVS-EN IEC 60751:2022 consists of the English text of the European standard EN IEC 60751:2022.
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EUROPEAN STANDARD

**EN IEC 60751**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2022

ICS 17.200.20

Supersedes EN 60751:2008 and all of its amendments  
and corrigenda (if any)

English Version

**Industrial platinum resistance thermometers and platinum  
temperature sensors  
(IEC 60751:2022)**

Thermomètres à résistance de platine et capteurs  
thermométriques de platine industriels  
(IEC 60751:2022)

Industrielle Platin-Widerstandsthermometer und Platin-  
Temperatursensoren  
(IEC 60751:2022)

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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**

## European foreword

The text of document 65B/1210/FDIS, future edition 3 of IEC 60751, prepared by SC 65B "Measurement and control devices" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60751:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-12-03
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-03-03

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IEC 61298-1 NOTE Harmonized as EN 61298-1

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

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

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-6	-	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	EN 60068-2-6	-
IEC 61152	-	Dimensions of metal-sheathed thermometer elements	EN 61152	-
IEC 61515	2016	Mineral insulated metal-sheathed thermocouple cables and thermocouples	EN 61515	2016

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Industrial platinum resistance thermometers and platinum temperature sensors**

**Thermomètres à résistance de platine et capteurs hermométriques de platine industriels**



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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

**Industrial platinum resistance thermometers and platinum temperature sensors**

**Thermomètres à résistance de platine et capteurs hermométriques de platine industriels**

INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## INDUSTRIAL PLATINUM RESISTANCE THERMOMETERS AND PLATINUM TEMPERATURE SENSORS

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This third edition cancels and replaces the second edition published in 2008. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) formula of resistance versus temperature relationship become the standard specification and the numerical table ceases to be the standard,
- b) new clause "Compliance and requirement" is introduced,
- c) tolerance acceptance test is modified,
- d) an expanded marking system is introduced to accommodate special valid temperature range,
- e) vibration test method is revised,
- f) cold seal is introduced as an additional type test,

g) numerical table of resistance versus temperature is included in Annex A as information.

The text of this International Standard is based on the following documents:

Draft	Report on voting
65B/1210/FDIS	65B/1214/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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