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Standards

Irish Standard
I.S. EN IEC 62884-4:2019

Measurement techniques of piezoelectric, dielectric and electrostatic oscillators - Part 4 : Short-term frequency stability test methods

I.S. EN IEC 62884-4:2019

Incorporating amendments/corrigenda/National Annexes issued since publication:

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National Foreword

I.S. EN IEC 62884-4:2019 is the adopted Irish version of the European Document EN IEC 62884-4:2019, Measurement techniques of piezoelectric, dielectric and electrostatic oscillators - Part 4 : Short-term frequency stability test methods

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EUROPEAN STANDARD

EN IEC 62884-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2019

ICS 31.140

English Version

**Measurement techniques of piezoelectric, dielectric and
electrostatic oscillators - Part 4 : Short-term frequency stability
test methods
(IEC 62884-4:2019)**

Techniques de mesure des oscillateurs piézoélectriques,
diélectriques et électrostatiques - Partie 4: Méthodes
d'essai de stabilité à court-terme de la fréquence
(IEC 62884-4:2019)

Messverfahren für piezoelektrische, dielektrische und
elektrostatische Oszillatoren - Teil 4: Prüfverfahren für die
Kurzzeit-Frequenzstabilität
(IEC 62884-4:2019)

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 62884-4:2019 (E)

European foreword

The text of document 49/1277/CDV, future edition 1 of IEC 62884-4, prepared by IEC/TC 49 "Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62884-4:2019.

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60068-1

NOTE

Harmonized as EN 60068-1

Annex ZA

(normative)

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60027	series	Letters symbols to be used in electrical technology - Part 1: General	-	series
IEC 60050-561	-	International Electrotechnical Vocabulary - Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection	-	-
IEC 60469	-	Transitions, pulses and related waveforms - Terms, definitions and algorithms	EN 60469	-
IEC 60617	-	Standard data element types with associated classification scheme for electric components -- Part 4: IEC reference collection fo standard data element types and component classes	-	-
IEC 60679-1	-	Piezoelectric, dielectric and electrostatic oscillators of assessed quality - Part 1 : Generic specification	EN 60679-1	-
IEC 62884-1	-	Measurement techniques of piezoelectric, dielectric and electrostatic oscillators - Part 1: Basic methods for the measurement	EN 62884-1	-
ISO 80000-1	-	Quantities and units -- Part 1: General	EN ISO 80000-1	-

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Edition 1.0 2019-05

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 4: Short-term frequency stability test methods

Techniques de mesure des oscillateurs piézoélectriques, diélectriques et électrostatiques – Partie 4: Méthodes d'essai de stabilité à court-terme de la fréquence



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 4: Short-term frequency stability test methods

Techniques de mesure des oscillateurs piézoélectriques, diélectriques et électrostatiques – Partie 4: Méthodes d'essai de stabilité à court-terme de la fréquence

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**MEASUREMENT TECHNIQUES OF PIEZOELECTRIC, DIELECTRIC AND
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The text of this International Standard is based on the following documents:

CDV	Report on voting
49/1277/CDV	49/1292/RVC

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62884 series, published under the general title *Measurement techniques of piezoelectric, dielectric and electrostatic oscillators*, can be found on the IEC website.

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MEASUREMENT TECHNIQUES OF PIEZOELECTRIC, DIELECTRIC AND ELECTROSTATIC OSCILLATORS –

Part 4: Short-term frequency stability test methods

1 Scope

This part of IEC 62884 describes the methods for the measurement and evaluation of the short-term frequency stability tests of piezoelectric, dielectric and electrostatic oscillators. Its purpose is to unify the test and evaluation methods for short-term frequency stability.

2 Normative references

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.

IEC 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60050-561, *International electrotechnical vocabulary – Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection*. Available at www.electropedia.org

IEC 60469, *Transitions, pulses and related waveforms – Terms, definitions and algorithms*

IEC 60617, *Graphical symbols for diagrams*, available at <http://std.iec.ch/iec60617>

IEC 60679-1, *Piezoelectric, dielectric and electrostatic oscillators of assessed quality – Part 1: Generic specification*

IEC 62884-1, *Measurement techniques of piezoelectric, dielectric and electrostatic oscillators – Part 1: Basic methods for the measurement*

ISO 80000-1, *Quantities and units – Part 1: General*

3 Terms and definitions, units and symbols

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60679-1 apply.

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