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**Elektromagnetna združljivost (EMC) - 4-10. del: Preskusne in merilne tehnike -
Preskus odpornosti proti magnetnemu polju dušenega nihanja**

Electromagnetic Compatibility (EMC) - Part 4-10: Testing and measurement techniques -
Damped oscillatory magnetic field immunity test

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EUROPEAN STANDARD

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Electromagnetic compatibility (EMC) -
Part 4-10: Testing and measurement techniques - Damped
oscillatory magnetic field immunity test
(IEC 61000-4-10:2016)

Compatibilité électromagnétique (CEM) -
Partie 4-10: Techniques d'essai et de mesure - Essai
d'immunité du champ magnétique oscillatoire amorti
(IEC 61000-4-10:2016)

Elektromagnetische Verträglichkeit (EMV) -
Teil 4-10: Prüf- und Messverfahren - Prüfung der
Störfestigkeit gegen gedämpft schwingende Magnetfelder
(IEC 61000-4-10:2016)

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European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

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

EN 61000-4-10:2017**European foreword**

The text of document 77B/730/CDV, future edition 2 of IEC 61000-4-10, prepared by SC 77B "High frequency phenomena" of IEC/TC 77 "Electromagnetic compatibility" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61000-4-10:2017.

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) 2017-08-24
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-02-24

This document supersedes EN 61000-4-10:1993.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	Series	International Electrotechnical Vocabulary (IEV)	-	-

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Electromagnetic compatibility (EMC) –
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field immunity test

Compatibilité électromagnétique (CEM) –
Partie 4-10: Techniques d'essai et de mesure – Essai d'immunité du champ
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTROMAGNETIC COMPATIBILITY (EMC) –**Part 4-10: Testing and measurement techniques –
Damped oscillatory magnetic field immunity test**

FOREWORD

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International Standard IEC 61000-4-10 has been prepared by subcommittee 77B: High frequency phenomena, of IEC technical committee 77: Electromagnetic compatibility.

It forms Part 4-10 of the IEC 61000 series. It has the status of a basic EMC publication in accordance with IEC Guide 107.

This second edition cancels and replaces the first edition published in 1993 and Amendment 1:2000. This edition constitutes a technical revision.

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

- a) new Annex A on induction coil field distribution;
- b) new Annex D on measurement uncertainty;

- c) new Annex E for numerical simulations;
- d) calibration using current measurement has been addressed in this edition.

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

CDV	Report on voting
77B/730/CDV	77B/746A/RVC

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

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

A list of all parts in the IEC 61000 series, published under the general title *Electromagnetic compatibility (EMC)*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

IEC 61000 is published in separate parts according to the following structure:

Part 1: General

General considerations (introduction, fundamental principles)
Definitions, terminology

Part 2: Environment

Description of the environment
Classification of the environment
Compatibility levels

Part 3: Limits

Emission limits
Immunity limits (insofar as they do not fall under the responsibility of the product committees)

Part 4: Testing and measurement techniques

Measurement techniques
Testing techniques

Part 5: Installation and mitigation guidelines

Installation guidelines [SIST EN 61000-4-10:2017](https://standards.iteh.ai/catalog/standards/sist/a4cab90c-98ef-4bad-8357-57b5fd94dd4/sist-en-61000-4-10-2017)
Mitigation methods and devices <https://standards.iteh.ai/catalog/standards/sist/a4cab90c-98ef-4bad-8357-57b5fd94dd4/sist-en-61000-4-10-2017>

Part 6: Generic standards

Part 9: Miscellaneous

Each part is further subdivided into several parts, published either as international standards or as technical specifications or technical reports, some of which have already been published as sections. Others will be published with the part number followed by a dash and a second number identifying the subdivision (example: IEC 61000-6-1).

This part is an international standard which gives immunity requirements and test procedures related to "damped oscillatory magnetic field".