

Ultrazvuk Impulzné echoskenery Časť 1: Postupy kalibrovania priestorových meracích systémov a meranie charakteristiky bodovej rozptylovej funkcie systému Zmena A1

STN EN 61391-1/A1

35 6893

Ultrasonics - Pulse-echo scanners Part 1: Techniques for calibrating spatial measurement systems and measurement of system point-spread function response

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/18

STN EN 61391-1 z mája 2007 sa bez tejto zmeny A1 môže používať do 01.12.2020.

Obsahuje: EN 61391-1:2006/A1:2017, IEC 61391-1:2006/AMD1:2017

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STN EN 61391-1/A1: 2018

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN 61391-1:2006/A1

December 2017

ICS 17.140.50

English Version

Ultrasonics - Pulse-echo scanners Part 1: Techniques for calibrating spatial measurement systems and measurement of system point-spread function response (IEC 61391-1:2006/A1:2017)

Ultrasons - Scanners à impulsion et écho Partie 1: Techniques pour l'étalonnage des systèmes de
mesure spatiaux et des mesures de la réponse de la
fonction de dispersion ponctuelle du système
(IEC 61391-1:2006/A1:2017)

Ultraschall - Impuls-Echo-Scanner Teil 1: Verfahren für die Kalibrierung von räumlichen
Messsystemen und Messung der Charakteristik der
Punktverwaschungsfunktion des Systems
(IEC 61391-1:2006/A1:2017)

This amendment A1 modifies the European Standard EN 61391-1:2006; it was approved by CENELEC on 2017-08-14. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment 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 CENELEC member.

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions.

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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

EN 61391-1:2006/A1:2017

European foreword

The text of document 87/650/FDIS, future IEC 61391-1:2006/A1, prepared by IEC/TC 87 "Ultrasonics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61391-1:2006/A1:2017.

The following dates are fixed:

document have to be withdrawn

•	latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2018-06-01
•	latest date by which the national standards conflicting with the	(dow)	2020-12-01

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

Endorsement notice

The text of the International Standard IEC 61391-1:2006/A1:2017 was approved by CENELEC as a European Standard without any modification.

In the Bibliography of EN 61391-1:2006, the following notes have to be **added** for the standards indicated:

IEC 62563-1:2009 NOTE Harmonized as EN 62563-1:2010 (not modified).
IEC 61391-2:2010 NOTE Harmonized as EN 61391-2:2010 (not modified).

EN 61391-1:2006/A1:2017

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.

<u>Publication</u> <u>Year</u> <u>Title</u> <u>EN/HD</u> <u>Year</u>

In Annex ZA of EN 61391-1:2006 replace IEC 61102:1991 by the following:

IEC 62127-1 2007 Ultrasonics - Hydrophones - EN 62127-1 2007

Part 1: Measurement and characterization of medical ultrasonic fields up to 40 MHz

Add to Annex ZA of EN 61391-1:2006 the following new references:

IEC 60050-801 1994 International Electrotechnical Vocabulary - -

(IEV) -

Chapter 801: Acoustics and

electroacoustics

IEC 60050-802 2011 International Electrotechnical Vocabulary - - -

Part 802: Ultrasonics



IEC 61391-1

Edition 1.0 2017-07

INTERNATIONAL STANDARD



AMENDMENT 1

Ultrasonics – Pulse-echo scanners –
Part 1: Techniques for calibrating spatial measurement systems and measurement of system point-spread function response





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AMENDMENT 1

Ultrasonics – Pulse-echo scanners –
Part 1: Techniques for calibrating spatial measurement systems and measurement of system point-spread function response

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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Warning! Make sure that you obtained this publication from an authorized distributor.

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IEC 61391-1:2006/AMD1:2017 © IEC 2017

FOREWORD

This amendment has been prepared by IEC technical committee 87: Ultrasonics.

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

FDIS	Report on voting	
87/650/FDIS	87/653/RVD	

Full information on the voting for the approval of this amendment 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.

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.

A bilingual version of this publication may be issued at a later date.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

2 Normative references

Replace:

IEC 61102:1991, Measurement and characterisation of ultrasonic fields using hydrophones in the frequency range 0,5 MHz to 15 MHz

with:

IEC 62127-1:2007, Ultrasonics – Hydrophones – Part 1: Measurement and characterization of medical ultrasonic fields up to 40 MHz

Insert the following new normative references in proper numerical sequence:

IEC 60050-801:1994, International Electrotechnical Vocabulary – Chapter 801: Acoustics and electroacoustics

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IEC 61391-1:2006/AMD1:2017 © IEC 2017 - 3 -

IEC 60050-802:2011, International Electrotechnical Vocabulary – Part 802: Ultrasonics

koniec náhľadu – text ďalej pokračuje v platenej verzii STN