

STN	Nedeštruktívne skúšanie Charakterizácia a overovanie ultrazvukového skúšobného zariadenia Časť 1: Prístroje (ISO 22232-1: 2020)	STN EN ISO 22232-1 01 5027
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Non-destructive testing - Characterization and verification of ultrasonic test equipment - Part 1: Instruments (ISO 22232-1:2020)

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. 01/21

Obsahuje: EN ISO 22232-1:2020, ISO 22232-1:2020

Oznámením tejto normy sa ruší
STN EN 12668-1 (01 5027) z augusta 2010

131882

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 22232-1

August 2020

ICS 19.100

Supersedes EN 12668-1:2010

English Version

**Non-destructive testing - Characterization and verification
of ultrasonic test equipment - Part 1: Instruments (ISO
22232-1:2020)**

Essais non destructifs - Caractérisation et vérification
de l'appareillage de contrôle par ultrasons - Partie 1:
Appareils (ISO 22232-1:2020)

Zerstörungsfreie Prüfung - Charakterisierung und
Verifizierung der Ultraschall-Prüfausrüstung - Teil 1:
Prüfgeräte (ISO 22232-1:2020)

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EN ISO 22232-1:2020 (E)

Contents	Page
European foreword.....	3

European foreword

This document (EN ISO 22232-1:2020) has been prepared by Technical Committee ISO/TC 135 "Non-destructive testing" in collaboration with Technical Committee CEN/TC 138 "Non-destructive testing" the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2021, and conflicting national standards shall be withdrawn at the latest by February 2021.

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INTERNATIONAL STANDARD

ISO
22232-1

First edition
2020-07

Non-destructive testing — Characterization and verification of ultrasonic test equipment —

Part 1: Instruments

*Essais non destructifs — Caractérisation et vérification de
l'appareillage de contrôle par ultrasons —*

Partie 1: Appareils



Reference number
ISO 22232-1:2020(E)

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Published in Switzerland

Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols	3
5 General requirements of conformity	4
6 Manufacturer's technical specification for ultrasonic instruments	4
7 Performance requirements for ultrasonic instruments	7
8 Group 1 tests	9
8.1 Equipment required for group 1 tests	9
8.2 Battery operational time	9
8.2.1 Procedure	9
8.2.2 Acceptance criterion	10
8.3 Stability after warm-up time	10
8.3.1 Procedure	10
8.3.2 Acceptance criteria	10
8.4 Stability against temperature	10
8.4.1 Procedure	10
8.4.2 Acceptance criterion	12
8.5 Stability against voltage variation	12
8.5.1 Procedure	12
8.5.2 Acceptance criterion	13
8.6 Time base deviation	13
8.6.1 Procedure	13
8.6.2 Acceptance criterion	15
8.7 Transmitter pulse parameters	15
8.7.1 General	15
8.7.2 Pulse repetition frequency	15
8.7.3 Effective output impedance	15
8.8 Receiver	16
8.8.1 General	16
8.8.2 Cross talk from transmitter to receiver during transmission	16
8.8.3 Dead time after transmitter pulse	17
8.8.4 Dynamic range and maximum input voltage	19
8.8.5 Receiver input impedance	20
8.8.6 Time-corrected gain (TCG)	21
8.9 Gates	22
8.9.1 General	22
8.9.2 Gates with value output	23
8.9.3 Gates with analogue output	25
8.9.4 Gates with alarm output	27
8.10 Highest digitized frequency	28
8.10.1 Procedure	28
8.10.2 Acceptance criterion	29
8.11 Response time of digital ultrasonic instruments	29
8.11.1 General	29
8.11.2 Procedure	29
8.11.3 Acceptance criterion	30
9 Group 2 tests	30
9.1 Equipment required for group 2 tests	30
9.2 Physical state and external aspects	31

ISO 22232-1:2020(E)

9.2.1	Procedure.....	31
9.2.2	Acceptance criterion.....	31
9.3	Transmitter voltage, pulse rise time and duration	31
9.3.1	Procedure.....	31
9.3.2	Acceptance criteria	34
9.4	Receiver.....	34
9.4.1	General.....	34
9.4.2	Frequency response	34
9.4.3	Noise level.....	36
9.4.4	Gain linearity.....	37
9.4.5	Vertical display linearity	37
Annex A (normative) Special conditions for ultrasonic instruments with logarithmic amplifiers		39
Bibliography		40

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 135, *Non-destructive testing*, Subcommittee SC 3, *Ultrasonic testing*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 138, *Non-destructive testing*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Non-destructive testing — Characterization and verification of ultrasonic test equipment —

Part 1: Instruments

1 Scope

This document specifies methods and acceptance criteria within the frequency range of 0,5 MHz to 15 MHz, for assessing the electrical performance of digital ultrasonic instruments for pulse operation using A-scan display, for manual ultrasonic non-destructive testing with single- or dual-transducer probes. This document is also applicable for multi-channel instruments. This document can partly be applicable to ultrasonic instruments in automated systems, but other tests can be needed to ensure satisfactory performance.

This document excludes ultrasonic instruments for continuous waves.

This document also excludes ultrasonic phased array instruments, see e.g. ISO 18563-1. If a phased array instrument has dedicated connectors for single- or dual-transducer probes this document is applicable for these channels.

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.

ISO 5577, *Non-destructive testing — Ultrasonic testing — Vocabulary*

ISO/IEC 17050-1, *Conformity assessment — Supplier's declaration of conformity — Part 1: General requirements*

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