

**Võnkumispõhised tihedusmõõturid. Osa 1:
Laboratoorsed mõõtevahendid**

Oscillation-type density meters - Part 1: Laboratory instruments

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 15212-1:2007 sisaldab Euroopa standardi EN ISO 15212-1:1999+AC:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 18.06.2001 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 24.03.1999.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 15212-1:2007 consists of the English text of the European standard EN ISO 15212-1:1999+AC:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 18.06.2001 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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The standard is available from Estonian standardisation organisation.

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English version

Oscillation-type density meters

**Part 1: Laboratory instruments
(ISO 15212-1 : 1998)**

Densimètres à oscillations – Partie 1:
Instruments de laboratoire
(ISO 15212-1 : 1998)

Dichtemeßgeräte nach dem
Schwingerprinzip – Teil 1: Labor-
geräte (ISO 15212-1 : 1998)

This European Standard was approved by CEN on 1999-03-03.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard 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 Central Secretariat or to any CEN member.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

International Standard

ISO 15212-1 : 1998 Oscillation-type density meters – Part 1: Laboratory instruments, which was prepared by ISO/TC 48 'Laboratory glassware and related apparatus' of the International Organization for Standardization, has been adopted by Technical Committee CEN/TC 332 'Laboratory equipment', the Secretariat of which is held by DIN, as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting national standards withdrawn, by September 1999 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard:

Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

Endorsement notice

The text of the International Standard ISO 15212-1 : 1998 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to international publications are listed in Annex ZA (normative).

Contents

	Page
1 Scope	3
2 Normative references	3
3 Definitions	4
4 Principle and functional units	4
4.1 Measuring principle	4
4.2 Functional units	4
5 Density sensor	5
5.1 Sensor material	5
5.2 Sensor design	5
6 Requirements and tests	6
6.1 Oscillation system	6
6.2 Temperature control and measurement	7
6.3 Displays	9
6.4 Auxiliary units and data transfer	9
6.5 Safety requirements	10
6.6 Electromagnetic compatibility	10
7 Adjustment	10
8 Calibration	10
8.1 Density reference liquids	10
8.2 Particular density reference liquids	11

8.3 Calibration requirements	11
8.4 Calibration procedure.....	11
9 Density meter accuracy	12
10 Manual	12
11 Marking	13
Annex A (normative) Density and compressibility of pure water	14
Annex B (normative) Density of moist air	19
Annex C (informative) Bibliography	22

1 Scope

This part of ISO 15212 specifies metrological and other requirements for oscillation-type density meters which are used in laboratories for all kinds of homogeneous fluid samples. In addition, a method for adjustment and calibration of laboratory instruments is given. The instruments are either stand-alone units or part of more complex measuring equipment supplying additional test parameters of the sample.

This part of ISO 15212 does not describe the method of use of density meters for particular applications or products such as petroleum products or beverages. Such methods of use can be defined by relevant institutions such as ISO or responsible government agencies.

This part of ISO 15212 does not define an instrument specification for any particular application. For this information reference should be made to the relevant standard covering the method of use.

This part of ISO 15212 is addressed to manufacturers of density meters and to bodies testing and certifying the conformity of density meters. In addition, this part of ISO 15212 gives recommendations for adjustment and calibration of density meters by the user.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 15212. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 15212 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3585:1998, *Borosilicate glass 3.3 — Properties*.

ISO 3696:1987, *Water for analytical laboratory use — Specification and test methods*.

IEC 61010-1:1990, *Safety requirements for electrical equipment for measurement, control and laboratory use — Part 1: General requirements*.

IEC 61326-1:1997, *Electrical equipment for measurement, control and laboratory use — EMC requirements — Part 1: General requirements*.

IEC 61326-1:—1), Amendment 1.

1) To be published.