

**Veearvestid. Osa 1: Üldnõuded. KONSOLIDEERITUD
TEKST**

Water meters - Part 1: General requirements
CONSOLIDATED TEXT

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14154-1:2005+A2:2011 sisaldab Euroopa standardi EN 14154-1:2005+A2:2011 ingliskeelset teksti.</p> <p>Standard on kinnitatud Eesti Standardikeskuse 30.04.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 06.04.2011.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14154-1:2005+A2:2011 consists of the English text of the European standard EN 14154-1:2005+A2:2011.</p> <p>This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.</p> <p>Date of Availability of the European standard text 06.04.2011.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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English Version

Water meters - Part 1: General requirements

Compteurs d'eau - Partie 1: Exigences générales

Wasserzähler - Teil 1: Allgemeine Anforderungen

This European Standard was approved by CEN on 26 August 2004 and includes Amendment 1 approved by CEN on 6 March 2007 and Amendment 2 approved by CEN on 3 January 2011.

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Management Centre: Avenue Marnix 17, B-1000 Brussels

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Foreword

This document (EN 14154-1:2005+A2:2011) has been prepared by Technical Committee CEN/TC 92 "Water meters", the secretariat of which is held by SNV.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2011 and conflicting national standards shall be withdrawn at the latest by October 2011.

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

This document includes Amendment 1, approved by CEN on 2007-03-06 and Amendment 2, approved by CEN on 2011-01-03.

This document supersedes $\boxed{A_2}$ EN 14154-1:2005+A1:2007 $\boxed{A_2}$.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{A_1}$ $\boxed{A_1}$ and $\boxed{A_2}$ $\boxed{A_2}$.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The standard consists of 3 parts. The other parts are:

- Part 2: *Installation and conditions of use*
- Part 3: *Test methods and equipment*

In developing a new Standard, CEN/TC 92 aimed to harmonise it with existing standards and recommendations for water meters, to accommodate new technologies and anticipating the requirements of the Directive 22/2004/EC on Measuring Instruments.

In respect of potential adverse affects on the quality of water intended for human consumption, caused by the product covered in this standard:

1. This standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU of EFTA;
2. It should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This document applies to water meters intended for residential, commercial, light industrial and industrial use, and specifies the requirements and certification procedures for water meters, irrespective of the design technologies used to meter the actual volume of clean cold potable water or heated water, flowing through a fully charged, closed conduit. These water meters shall incorporate devices, which indicate the integrated volume.

This document also applies to water meters based on electrical or electronic principles, and to water meters based on mechanical principles incorporating electronic devices, used to meter the actual volume flow of cold potable water or heated water. It provides metrological requirements for electronic ancillary devices when they are subject to metrological control. As a rule the ancillary devices are optional. However national or international regulations make some ancillary devices mandatory in relation to the utilisation of the water meter.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 1333:1996, *Pipework components — Definition and selection of PN*

EN 14154-2:2005+A2:2011, *Water meters — Part 2: Installation and condition of use*

EN 14154-3:2005+A2:2011, *Water meters — Part 3: Test methods and equipment*

EN ISO 228-1:2000, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation (ISO 228-1:2000)*

EN ISO 6708:1995, *Pipe components — Definition and selection of DN (nominal size) (ISO 6807:1995)*

ISO 3:1973, *Preferred numbers — Series of preferred numbers*

ISO 7005-2:1988, *Metallic flanges — Part 2: Cast iron flanges*

ISO 7005-3:1988, *Metallic flanges — Part 3: Copper alloy and composite flanges*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

water meter (OIML R49-1:2000)

an instrument intended to measure continuously, memorise and display the volume of water passing through it within rated operating conditions

NOTE A meter includes at least a measurement transducer, a calculator (including adjustment or correction devices if present) and an indicating device. These three devices may be in different housings.

3.2

in-line meter (OIML R49-2:2001)

a type of water meter fitted into a closed conduit by means of the meter end connections (either threaded or flanged) provided