



NSAI
Standards

Irish Standard
I.S. EN 1434-6:2015

Heat meters - Part 6: Installation, commissioning, operational monitoring and maintenance

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I.S. EN 1434-6:2015

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

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National Foreword

I.S. EN 1434-6:2015 is the adopted Irish version of the European Document EN 1434-6:2015, Heat meters - Part 6: Installation, commissioning, operational monitoring and maintenance

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

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EUROPEAN STANDARD

EN 1434-6

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2015

ICS 17.200.10

Supersedes EN 1434-6:2007

English Version

Heat meters - Part 6: Installation, commissioning, operational monitoring and maintenance

Compteurs d'énergie thermique - Partie 6: Installation,
mise en service, surveillance de fonctionnement et
maintenance

Wärmezähler - Teil 6: Einbau, Inbetriebnahme,
Überwachung und Wartung

This European Standard was approved by CEN on 5 September 2015.

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 CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN 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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 1434-6:2015) has been prepared by Technical Committee CEN/TC 176 “Heat meters”, the secretariat of which is held by SIS.

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 May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.

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 supersedes EN 1434-6:2007.

This document 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.

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

EN 1434, *Heat meters* consists of the following parts:

- *Part 1: General requirements*
- *Part 2: Constructional requirements*
- *Part 3: Data exchange and interfaces¹⁾*
- *Part 4: Pattern approval tests*
- *Part 5: Initial verification tests*
- *Part 6: Installation, commissioning, operational monitoring and maintenance*

In comparison to EN 1434-6:2007, the following changes have been made:

- special cases for combined cooling and heating meters are added;
- additional functionalities for smart metering applications are added;
- installation requirements added for heat meters which are located next to cables like data communication cables and mains supply cables;
- installation requirement changed for 4-wire connections;
- cooling meters are added.

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,

¹⁾ EN 1434-3 is maintained by CEN/TC 294.

EN 1434-6:2015 (E)

Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies commissioning, operational monitoring and maintenance and applies to heat meters. Heat meters are instruments intended for measuring the energy which in a heat-exchange circuit is absorbed (cooling) or given up (heating) by a liquid called the heat-conveying liquid. The heat meter indicates the quantity of heat in legal units.

Electrical safety requirements are not covered by this European Standard.

Pressure safety requirements are not covered by this European Standard.

Surface mounted temperature sensors are not covered by this European Standard.

This standard covers meters for closed systems only, where the differential pressure over the thermal load is limited.

2 Normative references

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.

EN 1434-1:2015, *Heat meters — Part 1: General requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1434-1:2015 and the following apply.

3.1

heating system

heating installation of the dwelling or premises, including the exchange circuit, the heat meter, the associated fittings and the electrical equipment

Note 1 to entry: The heating system typically commences and finishes at the two connections to the heat mains.

3.2

heat mains

heat suppliers distribution pipes to which the consumer's installation is connected

3.3

inlet and outlet limbs

pipes connecting the heating system to the heat mains

3.4

primary circuit

circuit hydraulically connected to the heat mains

3.5

secondary circuit

circuit hydraulically separated from the primary circuit

3.6

competent authority

persons or organizations charged with the responsibility for the heat meter and/or its installation

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