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**BS EN 1434-6:2015**



**BSI Standards Publication**

## **Heat meters**

Part 6: Installation, commissioning,  
operational monitoring and maintenance

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This British Standard is the UK implementation of EN 1434-6:2015. It supersedes BS EN 1434-6:2007 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CPI/30, Measurement of fluid flow in closed conduits.

A list of organizations represented on this committee can be obtained on request to its secretary.

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

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## 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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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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of an identical text or by endorsement, at the latest by May 2016, and conflicting national standards shall be withdrawn at the latest by May 2016.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 interfaces<sup>1)</sup>*
- *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,

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

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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.

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## 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