

STN	Merače tepelnej energie Časť 6: Inštalácia, uvedenie do prevádzky, sledovanie činnosti a údržba	STN EN 1434-6+A1 25 8512
------------	--	--

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. 07/19

Obsahuje: EN 1434-6:2015+A1:2019

Oznámením tejto normy sa ruší
STN EN 1434-6 (25 8512) z marca 2017

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1434-6:2015+A1

February 2019

ICS 17.200.10

Supersedes EN 1434-6:2015

English Version

**Thermal energy meters - Part 6: Installation,
commissioning, operational monitoring and maintenance**

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

Thermische Energiemessgeräte - Teil 6: Einbau,
Inbetriebnahme, Überwachung und Wartung

This European Standard was approved by CEN on 5 September 2015 and includes Amendment 1 approved by CEN on 5 February 2018.

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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions	4
4 Requirements.....	5
4.1 Design requirements	5
4.2 Installation requirements.....	6
4.3 \square_{A1} Thermal energy meter \square_{A1} commissioning.....	7
4.3.1 General.....	7
4.3.2 Certification check.....	7
4.3.3 Installation check.....	7
4.3.4 \square_{A1} Thermal energy meter \square_{A1} security	7
Annex A (informative) \square_{A1} Thermal energy meter \square_{A1} installation	8
Annex B (informative) \square_{A1} Thermal energy meter \square_{A1} operational monitoring and maintenance.....	18
Annex C (informative) Suggested gauge for checking the dimensions of installed temperature sensor pockets	21
Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/32/EU aimed to be covered	22
Bibliography.....	23

European foreword

This document (EN 1434-6:2015+A1:2019) has been prepared by Technical Committee CEN/TC 176 “Thermal energy 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 August 2019, and conflicting national standards shall be withdrawn at the latest by August 2019.

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

This document includes Amendment 1 approved by CEN on 5 February 2018.

This document supersedes A1 EN 1434-6:2015 A1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

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, *Thermal energy 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 A1 thermal energy meters A1 are added;
- additional functionalities for smart metering applications are added;
- installation requirements added for A1 thermal energy meters A1 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 organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

EN 1434-6:2015+A1:2019 (E)

1 Scope

This European Standard specifies commissioning, operational monitoring and maintenance and applies to **EN** thermal energy meters **EN**. **EN** Thermal energy meters **EN** 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 **EN** thermal energy meter **EN** 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 EN 1434-1:2015+A1:2018, *Thermal energy meters — Part 1: General requirements* **EN**

koniec náhľadu – text ďalej pokračuje v platenej verzii STN