



SLOVENSKI STANDARD
SIST EN 1434-6:1997/A1:2002

01-november-2002

Toplotni števci - 6. del: Vgradnja, zagon, nadzor in vzdrževanje

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

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

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

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Ta slovenski standard je istoveten z: EN 1434-6:1997/A1:2002

SIST EN 1434-6:1997/A1:2002
<https://standards.iteh.ai/catalog/standards/sist/4517cb66-9a34-45b0-b6ad-cf835360e7be/sist-en-1434-6-1997-a1-2002>

ICS:

17.200.10 Toplota. Kalorimetrija Heat. Calorimetry

SIST EN 1434-6:1997/A1:2002 **en**

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ICS 17.200.10

English version

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

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

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

This amendment A1 modifies the European Standard EN 1434-6:1997; it was approved by CEN on 1 July 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document (EN 1434-6:1997/A1:2002) has been prepared by Technical Committee CEN/TC 176 "Heat meters", the secretariat of which is held by DS.

This Amendment to the 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 March 2003, and conflicting national standards shall be withdrawn at the latest by March 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this Amendment to the European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

This amendment to EN 1434-6 is divided into 2 main areas. The first being the new clauses – i.e. clauses which are not present in the 1997 version. The second being the amended clauses, where the entire clause – not only the changes – is presented.

It has been prepared in such a way that it can be cut and pasted into the old version.

A new descriptor has been added: cooling meters.

1 New clauses

Add new clause to Annex A

A.5 Additional recommendations for cooling application

- Install flow sensor at high temperature line to reduce condensation, and to improve meter performance, due to temperature dependence.
- As cooling meters very often operate with a very low temperature difference, maximum care should be taken at temperature sensor selection and installation. Symmetrical installation and insulation of the sensors are very important factors.
- Balanced adjustment of temperature measurement, inside the calculator of a hybrid instrument, at the specific flow temperature, will improve performance. <https://standards.iteh.ai/catalog/standards/sist/4517cb66-9a34-45b0-b6ad-7c9c7b111111/EN-1434-6:1997/A1:2002>
- To avoid the accumulation of condensation, install pockets with opening downwards.

2 Amended clauses

NEW TEXT

1 Scope

This European Standard applies to heat meters, that is to instruments intended for measuring the heat which, in a heat-exchange circuit, is absorbed or given up 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 standard.

Pressure safety requirements are not covered by this standard.

Surface mounted sensors are not covered by this standard.

Part 1 specifies general requirements.

NEW TEXT (*only 8th paragraph changed*)

4.2 Installation requirements

The heat meter shall be installed in accordance with the supplier's instructions.

Before installation, the circuit into which the flow sensor is to be installed shall be thoroughly flushed to remove debris. The strainer, where fitted, shall be cleaned.

The heat meter shall be protected from the risk of damage by shock and vibration induced by the surroundings at the place of installation.

The heat meter shall not be subjected to undue stresses caused by pipes and fittings.

The pipe lines of the heating system up and downstream of the heat meter shall be adequately anchored.

Heat meters designed to operate from an AC mains supply shall be wired in accordance with wiring regulations applicable.

The AC-mains power supply shall be secured against accidental interruption. However, circuit protection shall be incorporated according to the state of the art, to safely disconnect the device when electrical problems occur.

Signal and low voltage supply leads shall not be laid directly alongside mains supply cables and shall be independently supported. The separation between signal leads and mains supply cables shall not be less than 50 mm.

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Each signal lead between temperature sensors and calculator shall be one continuous length without joints.

Signal circuits between parts of a heat meter shall be so installed as to deter unauthorized interference and disconnection.

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Precautions shall be taken to prevent damage to the heat meter by unfavourable hydraulic conditions (cavitation, surging, water hammer).

When the installation of the heat meters is complete, it shall be inspected and approved by representatives of the competent authority in accordance with established procedures.