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**Vgradnja meritnikov toplotne - Smernice za izbiro, vgradnjo in delovanje meritnikov toplotne**

Installation of thermal energy meters - Guidelines for the selection, installation and operation of thermal energy meters

Installation von thermischen Energiemessgeräten - Richtlinien für Auswahl, Installation und Betrieb von thermischen Energiemessgeräten

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Compteur d'énergie thermique Installation — Lignes directrices pour la sélection, l'installation et le fonctionnement des compteurs d'énergie thermique

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**Installation of thermal energy meters - Guidelines for the selection, installation and operation of thermal energy meters**

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Installation von thermischen Energiemessgeräten - Richtlinien für Auswahl, Installation und Betrieb von thermischen Energiemessgeräten

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**CEN/TR 13582:2025 (E)****European foreword**

This document (CEN/TR 13582:2025) has been prepared by Technical Committee CEN/TC 176 “Thermal energy meters” the secretariat of which is held by SIS.

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 supersedes CEN/TR 13582:2021.

This document includes the following significant technical changes with respect to CEN/TR 13582:2021:

- replacement of incorrect figures;
- editorial changes to the text.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

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## Introduction

Metering devices for thermal energy (heat and cooling meters) are only working correctly and consistently if the system design considers the minimum and maximum ratings for temperature, temperature difference and flow rate according to the approved ranges. The metering device is selected for the approved legal range and the application area. The thermal energy meter is installed according to the valid requirements. During commissioning the thermal energy meter is checked for both correct installation and full functionality and afterwards sealed against unauthorized opening.

According to EN 1434-6, harmonized against the Measuring Instruments Directive (MID) [1], a commissioning is obligatory to ensure that the metering device accurately measures the planned or predicted consumption.

Installing the metering devices or their sub-assemblies incorrectly (e.g. an incorrect combination of temperature sensors with non-approved pockets) does not guarantee the measuring accuracy. Hence, the measurement deviations can exceed the permissible error limits. National calibration laws state that the metering point operator ensures that the metering device is set up, connected, handled and maintained correctly to guarantee the measuring accuracy. Incorrect measurements result in bills that cannot be used in business transactions.

The metering point operator is in district heating networks responsible for a proper installation and commissioning of the metering devices. The metering point operator can also delegate this task to a service company. The building owner or the building owner's representative (e.g. a metering service company) is in sub metering applications responsible for a proper installation and commissioning of the metering devices.

## EN Standards

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