

**ELEKTRIMÕÕTESEADMED VAHELDUVVOOLULE.
ERINÕUDED. OSA 22: STAATILISED AKTIIVENERGIA
ARVESTID (KLASS 0,2 S JA 0,5 S)**

**Electricity metering equipment (a.c.) -
Particular Requirements - Part 22: Static meters for
active energy (classes 0,2 S and 0,5 S)
(IEC 62053-22:2003+IEC 62053-22:2003/A1:2016)**

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN 62053-22:2003+A1:2017 sisaldab Euroopa standardi EN 62053-22:2003 ja selle muudatuse A1:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 62053-22:2003+A1:2017 consists of the English text of the European standard EN 62053-22:2003 and its amendment A1:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English version

**Electricity metering equipment (a.c.) –
Particular requirements
Part 22: Static meters for active energy (classes 0,2 S and 0,5 S)
(IEC 62053-22:2003)**

Equipement de comptage
de l'électricité (c.a.) –
Prescriptions particulières
Partie 22: Compteurs statiques d'énergie
active (classes 0,2 S et 0,5 S)
(CEI 62053-22:2003)

Wechselstrom-Elektrizitätszähler -
Besondere Anforderungen
Teil 22: Elektronische
Wirkverbrauchszähler der
Genauigkeitsklassen 0,2 S und 0,5 S
(IEC 62053-22:2003)

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 13/1283/FDIS, future edition 1 of IEC 62053-22, prepared by IEC TC 13, Equipment for electrical energy measurement and load control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 62053-22 on 2003-03-01.

This European Standard supersedes EN 60687:1992 + corrigendum March 1993.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2003-12-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-03-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annexes A, B and ZA are normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 62053-22:2003 was approved by CENELEC as a European Standard without any modification.

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ELECTRICITY METERING EQUIPMENT (AC) – PARTICULAR REQUIREMENTS –

Part 22: Static meters for active energy (classes 0,2 S and 0,5 S)

1 Scope

This part of IEC 62053 applies only to newly manufactured static watt-hour meters of accuracy classes 0,2 S and 0,5 S, for the measurement of alternating current electrical active energy in 50 Hz or 60 Hz networks and it applies to their type tests only.

It applies only to transformer-operated static watt-hour meters for indoor application consisting of a measuring element and register(s) enclosed together in a meter case. It also applies to operation indicator(s) and test output(s). If the meter has a measuring element for more than one type of energy (multi-energy meters), or when other functional elements, like maximum demand indicators, electronic tariff registers, time switches, ripple control receivers, data communication interfaces, etc. are enclosed in the meter case, then the relevant standards for these elements also apply.

NOTE IEC 60044-1 describes transformers having a measuring range of $0,01 I_n$ to $1,2 I_n$, or of $0,05 I_n$ to $1,5 I_n$, or of $0,05 I_n$ to $2 I_n$ and transformers having a measuring range of $0,01 I_n$ to $1,2 I_n$ for accuracy classes 0,2 S and 0,5 S. As the measuring ranges of a meter and its associated transformers have to be matched and as only transformers of classes 0,2 S and 0,5 S have the accuracy required to operate the meters of this standard, the measuring range of the meter will be $0,01 I_n$ to $1,2 I_n$.

It does not apply to:

- watt-hour meters where the voltage across the connection terminals exceeds 600 V (line-to-line voltage for meters for polyphase systems);
- portable meters and meters for outdoor use;
- data interfaces to the register of the meter;
- reference meters.

The dependability aspect is covered by the documents of the IEC 62059 series.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60044-1:1996, *Instrument transformers – Part 1: Current transformers*

IEC 60736:1982, *Testing equipment for electrical energy meters*

IEC 62052-11:2002, *Electricity metering equipment (a.c.) – General requirements, tests and test conditions – Part 11: Metering equipment*

IEC 62053-61:1998, *Electricity metering equipment (a.c.) - Particular requirements - Part 61: Power consumption and voltage requirements*