

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electricity metering equipment (AC) – Acceptance inspection –
Part 11: General acceptance inspection methods**

**Équipement de comptage de l'électricité (c.a.) – Contrôle de réception –
Partie 11: Méthodes générales de contrôle de réception**

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Electricity metering equipment (AC) – Acceptance inspection –
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**ELECTRICITY METERING EQUIPMENT (AC) –
ACCEPTANCE INSPECTION –**

Part 11: General acceptance inspection methods

FOREWORD

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The text of this standard is based on the following documents:

FDIS	Report on voting
13/1430/FDIS	13/1438/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

A list of all parts of IEC 62058 series, published under the general title *Electricity metering equipment (AC) – Acceptance inspection*, can be found on the IEC website.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
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INTRODUCTION

This part of IEC 62058 describes – based on relevant standards established by ISO TC 69 SC 5 – general acceptance inspection methods of newly manufactured electricity meters, supplied in lots of 50 and above. The method of acceptance of smaller lots should be agreed upon by the manufacturer and the customer.

In this standard, it has been taken into account that modern, automated manufacturing processes operated under quality management systems allow to keep the quality level under tight control.

This standard, together with IEC 62058-21, containing particular requirements for acceptance inspection of electromechanical meters for active energy, and IEC 62058-31, containing particular requirements for acceptance inspection of static meters for active energy, cancels and replaces the following standards:

- IEC 60514: *Acceptance inspection of class 2 alternating-current watt-hour meters and*
- IEC 61358: *Acceptance inspection for direct connected alternating current static watt-hour meters for active energy (classes 1 and 2).*

Main changes in this standard compared to those earlier standards:

- it is based on the latest standards established by ISO TC 69 SC 5;
- the rules for switching between normal, tightened and reduced inspection have been adopted;
- the procedures for inspection of isolated lots have been adopted;
- the procedures for skip-lot sampling have been adopted;
- for inspection by variables, the “*R*” method has been eliminated and the “*σ*” method has been adopted.

ELECTRICITY METERING EQUIPMENT (AC) – ACCEPTANCE INSPECTION –

Part 11: General acceptance inspection methods

1 Scope

The general acceptance inspection methods specified in this part of IEC 62058 apply to newly manufactured electricity meters produced and supplied in lots of 50 and above.

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.

ISO 2859-1:1999, *Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 2859-1:1999/Cor 1:2001

ISO 2859-2:1985, *Sampling procedures for inspection by attributes – Part 2: Sampling plans indexed by limiting quality (LQ) for isolated lot inspection*

[IEC 62058-11:2008](https://standards.iteh.ai/catalog/standards/sist/351b924c-5472-4113-bd62-64d4b7768341/iec-62058-11-2008)

ISO 2859-3:2005, *Sampling procedures for inspection by attributes – Part 3: Skip-lot sampling procedures*

ISO 3534-2:2006 Ed. 2 *Statistics – Vocabulary and symbols – Part 2: Applied statistics*

ISO 3951-1:2005 Ed. 1, *Sampling procedures for inspection by variables – Part 1: Specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection for a single quality characteristic and a single AQL*

ISO 3951-2:2006 Ed. 1, *Sampling procedures for inspection by variables – Part 2: General specification for single sampling plans indexed by acceptance quality limit (AQL) for lot-by-lot inspection of independent quality characteristics*

ISO 5479:1997, *Statistical interpretation of data – Tests for departure from the normal distribution*

3 Terms and definitions

For the purposes of this document, the terms and definitions of ISO 3534-2 and the following apply.

NOTE In this standard, the term “meter” means any kind of metering equipment in the Scope of TC 13, i.e. meters for active or reactive energy, time switches, ripple control receivers, etc. The term “customer” is used with the same meaning as “consumer” and the term “manufacturer” is used with the same meaning as the term “supplier”.

3.1 Sources of data

3.1.1 characteristic distinguishing feature

NOTE 1 A characteristic can be inherent or assigned.

NOTE 2 A characteristic can be qualitative or quantitative.

[ISO 3534-2, 1.1.1 modified]

3.1.2 population (reference) totality of items under consideration

[ISO 3534-2, 1.2.1. modified]

3.1.3 lot definite part of a population constituted under essentially the same conditions as the population with respect to the sampling purpose

NOTE The sampling purpose can, for example, be to determine lot acceptability, or to estimate the mean value of a particular characteristic.

[ISO 3534-2, 1.2.4]

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3.1.4 isolated lot lot separated from the sequence of lots in which it was formed and not forming part of a current sequence

[ISO 3534-2, 1.2.5]

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3.1.5 re-submitted lot lot which previously has been designated as not acceptable and which is submitted again for inspection after having been further treated, tested, sorted, reprocessed, etc.

[ISO 3534-2, 1.2.9]

3.1.6 item entity anything that can be described and considered separately; for the purposes of this standard, an electricity meter

[ISO 3534-2, 1.2.11 modified]

3.1.7 nonconforming item item with one or more nonconformities

[ISO 3534-2, 1.2.12]

3.1.8 defective item item with one or more defects

[ISO 3534-2, 1.2.13]

**3.1.9
sampling unit
unit**

one of the individual parts into which a population is divided

[ISO 3534-2, 1.2.14 modified]

**3.1.10
nonconforming unit**

unit with one or more nonconformities

[ISO 3534-2, 1.2.15]

**3.1.11
sample**

subset of a population made up of one or more sampling units

[ISO 3534-2, 1.2.17 modified]

**3.1.12
sample size**

number of sampling units in a sample

NOTE In a multistage sample, the sample size is the total number of sampling units at the conclusion of the final stage of sampling.

[ISO 3534-2, 1.2.26]

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3.2 Types of sampling**3.2.1
sampling**

act of drawing or constituting a sample

[ISO 3534-2, 1.3.1]

**3.2.2
simple random sampling**

sampling where a sample of n sampling units is taken from a population in such a way that all the possible combinations of n sampling units have the same probability of being taken

[ISO 3534-2, 1.3.4 modified]

**3.2.3
acceptance sampling**

sampling after which decisions are made to accept or not to accept a lot based on sample results

[ISO 3534-2, 1.3.17 modified]

3.3 Specifications, values and test results**3.3.1
specification limit**

limiting value stated for a characteristic

[ISO 3534-2, 3.1.3]

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3.3.2

upper specification limit

U

specification limit that defines the upper limiting value

[ISO 3534-2, 3.1.4]

3.3.3

lower specification limit

L

specification limit that defines the lower limiting value

[ISO 3534-2, 3.1.5]

3.3.4

single specification limit

specification limit where the decision criteria is applied only to one limit

[ISO 3534-2, 3.1.7]

3.3.5

combined double specification limit

specification limit where the decision criteria is applied collectively to the upper and lower limits

[ISO 3534-2, 3.1.8]

3.3.6

combined control

requirement when nonconformity beyond both the upper and the lower specification of a quality characteristic belongs to the same class, to which a single AQL is applied

[ISO 3951-2, 3.17, modified]

3.3.7

nonconformity

non-fulfilment of a requirement

NOTE See notes to “defect”.

[ISO 3534-2, 3.1.11]

3.3.8

defect

non-fulfilment of a requirement related to an intended or specified use

NOTE 1 The distinction between the concepts defect and nonconformity is important as it has legal connotations, particularly those associated with product liability issues. Consequently, the term “defect” should be used with extreme caution.

NOTE 2 The intended use by the customer can be affected by the nature of the information, such as operating or maintenance instructions, provided by the customer.

[ISO 3534-2, 3.1.12]

3.4 Types of inspection

3.4.1

conformity evaluation

systematic examination of the extent to which an item/entity fulfils specified requirements

[ISO 3534-2, 4.1.1]

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ISO 6058-11:2008
Standard for the use of the term “defect” in ISO 9000
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3.4.2**inspection**

conformity evaluation by observation and judgement accompanied as appropriate by measurement, testing or gauging

[ISO 3534-2, 4.1.2]

3.4.3**inspection by attributes**

inspection by noting the presence, or absence, of one or more particular characteristic(s) in each of the items in the group under consideration, and counting how many items do, or do not, possess the characteristic(s), or how many such events occur in the item

NOTE When inspection is performed by simply noting whether the item is nonconforming or not, the inspection is termed inspection for nonconforming items. When inspection is performed by noting the number of nonconformities on each unit, the inspection is termed inspection for number of nonconformities.

[ISO 3534-2, 4.1.3 modified]

3.4.4**inspection by variables**

inspection by measuring the magnitude(s) of the characteristic(s) of an item

[ISO 3534-2, 4.1.4]

3.4.5**100 % inspection**

inspection of selected characteristic(s) of every item in the group under consideration

[ISO 3534-2, 4.1.5]

3.4.6**sampling inspection**

inspection of selected items in the group under consideration

[ISO 3534-2, 4.1.6]

3.4.7**acceptance sampling inspection**

acceptance inspection where the acceptability is determined by means of sampling inspection

[ISO 3534-2, 4.1.8]

3.4.8**normal inspection**

inspection which is used when there is no reason to think that the quality level achieved by the process differs from a specified level

[ISO 3534-2, 4.1.10]

3.4.9**reduced inspection**

inspection less severe than normal inspection, to which the latter is switched when inspection results of a predetermined number of lots indicate that the quality level achieved by the process is better than that specified

[ISO 3534-2, 4.1.11]

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