IEC 63345

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Energy efficiency systems – Simple external consumer display

Systèmes pour l'efficacité énergétique – Affichage simple et externe du client

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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ENERGY EFFICIENCY SYSTEMS – SIMPLE EXTERNAL CONSUMER DISPLAY

FOREWORD

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The text of this International Standard is based on the following documents:

Draft	Report on voting
23K/87/FDIS	23K/89/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

The reduction of CO_2 emissions is one the most challenging tasks today.

Providing the consumers with more information about their energy usage will allow them to make more informed choices and hence reductions.

Standardizing the communications interfaces between the metering systems and display will allow interoperability between the meter and display.

ENERGY EFFICIENCY SYSTEMS – SIMPLE EXTERNAL CONSUMER DISPLAY

1 Scope

This document specifies a data model to abstract the metering world towards a simple external consumer display. The data model, as described by means of functional blocks contained in this document, lays down the format of metering data accessible by a simple external consumer display. This data interface would be typically part of the meter communication functions and be accessed by a simple external consumer display via the H1 interface of CEN/CLC/ETSI TR 50572 between the display and the meter communication functions.

The data interface specified in this document may also be accessed by the LNAP or NNAP through the C or M interface, after which the data could be accessed by HBES devices through the H2 and H3 interfaces.

In other words, in this way the same data model can be used both on the H1 as well as the H2 and H3 interfaces.

This document does not specify the communication mechanisms used on the data interface, nor the applied data privacy and security mechanisms, nor the ergonomics of the simple external consumer displays, where national regulations can apply.

The document does also not specify the communication protocol used between the meters and the meter communication functions. However, it takes into account existing standards such as the EN 13757 series (in particular EN 13757-3:2018 and its Annex H) and the IEC 62056 series for the definition of the data model.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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/IEC 8859-1, *Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1*

ISO 4217, *Codes for the representation of currencies*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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- IEC Electropedia: available at https://www.electropedia.org/
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