

SLOVENSKI STANDARD
SIST EN 62056-46:2004/A1:2007
01-november-2007

Merjenje električne energije – Izmenjevanje podatkov za odbiranje stanja električnih števecov ter krmiljenje tarife in obremenitve – 46. del: Plast podatkovnih povezav z uporabo protokola HDLC (IEC 62056-46:2002/A1:2006)

Electricity metering - Data exchange for meter reading, tariff and load control -- Part 46: Data link layer using HDLC protocol

Messung der elektrischen Energie - Zählerstandsübertragung, Tarif- und Laststeuerung - Teil 46: Anwendung des HDLC-Protokolls in der Verbindungsschicht

Equipements de mesure de l'énergie électrique - Echange des données pour la lecture des compteurs, le contrôle des tarifs et de la charge -- Partie 46: Couche liaison utilisant le protocole HDLC

Ta slovenski standard je istoveten z: EN 62056-46:2002/A1:2007

ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
35.100.20	Podatkovni povezovalni sloj	Data link layer
91.140.50	Sistemi za oskrbo z elektriko	Electricity supply systems

SIST EN 62056-46:2004/A1:2007 en,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 62056-46/A1

April 2007

ICS 91.140.50; 35.100.20

English version

**Electricity metering -
Data exchange for meter reading, tariff and load control -
Part 46: Data link layer using HDLC protocol
(IEC 62056-46:2002/A1:2006)**

Equipements de mesure
de l'énergie électrique -
Echange des données
pour la lecture des compteurs,
le contrôle des tarifs et de la charge -
Partie 46: Couche liaison
utilisant le protocole HDLC
(CEI 62056-46:2002/A1:2006)

Messung der elektrischen Energie -
Zählerstandsübertragung,
Tarif- und Laststeuerung -
Teil 46: Anwendung des HDLC-Protokolls
in der Verbindungsschicht
(IEC 62056-46:2002/A1:2006)

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This amendment A1 modifies the European Standard EN 62056-46:2002; it was approved by CENELEC on 2007-02-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 13/1376/FDIS, future amendment 1 to IEC 62056-46:2002, prepared by IEC TC 13, Electrical energy measurement, tariff- and load control, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as amendment A1 to EN 62056-46:2002 on 2007-02-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2007-11-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2010-02-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of amendment 1:2006 to the International Standard IEC 62056-46:2002 was approved by CENELEC as an amendment to the European Standard without any modification.

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Replace Annex ZA of EN 62056-46:2002 by:

Annex ZA
(normative)

**Normative references to international publications
with their corresponding European publications**

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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-300	2001	International Electrotechnical Vocabulary - Electrical and electronic measurements and measuring instruments - Part 311: General terms relating to measurements - Part 312: General terms relating to electrical measurements - Part 313: Types of electrical measuring instruments - Part 314: Specific terms according to the type of instrument	-	-
IEC/TR 62051	1999	Electricity metering - Glossary of terms	-	-
IEC/TR 62051-1	2004	Electricity metering - Data exchange for meter reading, tariff and load control - Glossary of terms - Part 1: Terms related to data exchange with metering equipment using DLMS/COSEM	-	-
IEC 62056-42	2002	Electricity metering - Data exchange for meter reading, tariff and load control - Part 42: Physical layer services and procedures for connection-oriented asynchronous data exchange	EN 62056-42	2002
IEC 62056-53	2006	Electricity metering - Data exchange for meter reading, tariff and load control - Part 53: COSEM application layer	EN 62056-53	2007
IEC 62056-61	2006	Electricity metering - Data exchange for meter reading, tariff and load control - Part 61: Object identification system (OBIS)	EN 62056-61	2007
IEC 62056-62	2006	Electricity metering - Data exchange for meter reading, tariff and load control - Part 62: Interface classes	EN 62056-62	2007
ISO/IEC 8802-2	1998	Information technology - Telecommunications - and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 2: Logical link control	-	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC 13239	2002	Information technology - Telecommunications - and information exchange between systems - High-level data link control (HDLC) procedures		-

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INTERNATIONAL STANDARD

IEC 62056-46

2002

AMENDMENT 1
2006-12

Amendment 1

**Electricity metering –
Data exchange for meter reading,
tariff and load control –**

Part 46:

Data link layer using HDLC protocol

[SIST EN 62056-46:2004/A1:2007](https://standards.iteh.ai/catalog/standards/sist/691b4873-cc7e-4544-80ec-c5c7bef739dd/sist-en-62056-46-2004-a1-2007)
<https://standards.iteh.ai/catalog/standards/sist/691b4873-cc7e-4544-80ec-c5c7bef739dd/sist-en-62056-46-2004-a1-2007>

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

PRICE CODE

H

For price, see current catalogue

FOREWORD

This amendment has been prepared by IEC technical committee 13: Equipment for electrical energy measurement and load control.

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

CDV	Report on voting
13/1376/FDIS	13/1401/RVD

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

The committee has decided that the contents of this amendment and the base 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
- amended.

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INTRODUCTION

[SIST EN 62056-46:2004/A1:2007](https://standards.iteh.ai/catalog/standards/sist/691b4873-ce7e-4544-80ee-c5c7bef739dd/sist-en-62056-46-2004-a1-2007)

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This Amendment takes into account that in the third edition of ISO/IEC 13239, frame type 3 has been added as Annex H.4, as requested by IEC TC 13 WG 14, and that second editions of some parts of the IEC 62056 series are under preparation.

It specifies now that a secondary station may use more than one addressing scheme.

It contains some changes concerning the negotiation of the maximum information length field HDLC parameter for better efficiency.

References have been updated and some editorial errors have also been corrected.

Page 6

2 Normative references

Add the following reference:

IEC 62051-1:2004, *Electricity metering – Data exchange for meter reading, tariff and load control – Glossary of Terms – Part 1, Terms related to data exchange with metering equipment using DLMS/COSEM*

Amend the following references:

IEC 62056-53:2006, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 53: COSEM Application layer*

IEC 62056-61:2006, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 61: OBIS Object identification system*

IEC 62056-62:2006, *Electricity metering – Data exchange for meter reading, tariff and load control – Part 62: Interface classes*

ISO/IEC 13239:2002, *Information technology – Telecommunications and information exchange between systems – High-level data link control (HDLC) procedures*

Page 7

3 Terms, definitions and abbreviations

Replace the sentence by the following:

For the purposes of this document, the definitions given in IEC 60050-300, IEC 62051 and IEC 62051-1 apply.

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[SIST EN 62056-46:2004/A1:2007](https://standards.iteh.ai/catalog/standards/sist/691b4873-cc7e-4544-80ee-c5c7bef739dd/sist-en-62056-46-2004-a1-2007)

4.3 Specification method

<https://standards.iteh.ai/catalog/standards/sist/691b4873-cc7e-4544-80ee-c5c7bef739dd/sist-en-62056-46-2004-a1-2007>

Delete, on page 9, in the fourth bullet point “(e.g. Physical_Connection_Type)”.

Add a line break, below the Note, before the second sentence “The protocol specification.....” so that this sentence belongs to the three bullet points following.

Replace, in the ninth bullet point “(User data subfield)” by “(Information field, User data subfield)”.

Page 14

5.2.2.2 DL-DISCONNECT.request

Replace, in the service primitive definition “User information” by “User_Information”.

Replace, in the paragraph following the service primitive definition, “User_information” by “User_Information”.

5.2.2.3 DL-DISCONNECT.indication

Replace, in the service primitive definition, “User Information” by “User_Information”.

Replace, on page 15, in the paragraph above “Use”, “User Information” by “User_Information”.

5.2.2.4 DL-DISCONNECT.response

Replace, on page 15, in the paragraph following the service primitive definition,