

ICS 17.220.20

CCS N 22



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 17215.101-2010

**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**

电测量 抄表、费率和负荷控制的数据交换 术语 第1部分：与使用DLMS/COSEM
的测量设备交换数据相关的术语

(English Translation)

Issued on: January 14, 2011

Implemented on: June 1, 2011

Issued by: Standardization Administration of China

Table of Contents

Preface

Introduction

1 Scope

2 Normative references

3 Terms and definitions, abbreviations

3.1 Terms and definitions

3.2 Acronyms

Appendix A (Informative Appendix) IEC 62051 in the "Terminology summary"

References

Index

Pinyin index

English equivalents index

Foreword

This section GB/T 17215 "Electrical measuring the term" part (IEC 62051).

This section identical with IEC TR62051-1:2004 data exchange term "electrical measurement meter reading, tariff and load control 1 Part I. Measurement equipment and exchange data using DLMS/COSEM related terminology "(in English).

This section is equivalent translation IEC TR62051-1:2004.

For ease of use, this section made the following editorial changes.

- a) instead of as a decimal by decimal comma " , " ;
- b) Remove the preface to the international standards;
- c) using the "part" instead of "this International Standard";
- d) an increase of introduction, to facilitate users to understand the GB/T 17215 standard corresponds to IEC 62051 ~ standards IEC 62059 and Numbering;
- e) an increase of Chinese pinyin and English equivalents index.

Appendix A of this section is an informative annex.

This part is proposed by China Machinery Industry Federation.

This part of the National Electrical Instrument Standardization Technical Committee

(SAC/TC104) centralized.

This section is drafted. Harbin Electrical Instrument Research Institute, Shaanxi Electric Power Research Institute, Tsinghua University, Guodian Nanjing Automation Institute Hospital study, NARI Technology Development Co., Ltd., Shaanxi Electric Power Company, the Northwest Power Grid Co., Ltd., Heilongjiang Electric Power Research Institute.

Introduction

GB/T 17215 series of standards adopted basic IEC/TC13 international standard "energy measurement and load control equipment". Our reference Standard construction IEC/TC13 development with the corresponding energy measurement and load control standard system, after adjustment of IEC/TC13 Standard System will be based on their different categories, different objects and common technical requirements and particularity were incorporated into IEC 62051 ~ IEC 62059 total

9 Subdivision.

IEC 62051 electrical measurement terms IEC 62052 General requirements AC measuring equipment IEC 62053 AC measuring equipment - Specific requirements IEC 62054 AC measurement equipment tariff and load control - Particular requirements IEC 62055 electrical measuring payment vending system IEC 62056 electrical measuring meter reading, tariff and load control of data exchange IEC 62057 electrical measurement test equipment IEC 62058 AC measuring equipment acceptance testing IEC 62059 AC measuring equipment credibility of the series of international standards into national standards numbering principles and methods of the process of national standards identified in the followings.

IEC/TC13 "energy measurement and load control" corresponds to the total number of standards. GB/T 17215. Each part number are as follows.

IEC 62051 electrical measurements corresponding to the term of GB/T 17215.1 xx ("1" represents IEC 62051, "xx" denotes parts) IEC 62052 AC measuring equipment General requirements (GB/T 17215.2 xx, "2" represents IEC 62052, "xx" denotes Sections) IEC 62053 AC measuring equipment - Specific requirements (GB/T 17215.3 xx, "3" represents IEC 62053, "xx" denotes Sections) IEC 62054 AC measurement equipment tariff and load control - Particular requirements (GB/T 17215.4 xx, "4" expressed IEC 62054, "xx" denotes parts) IEC 62055 electrical measuring payment vending system (GB/T 17215.5 xx, "5" indicates IEC 62055, "xx" represents the first of several portions Minute) IEC 62056 electrical measuring meter reading, tariff and load control data exchange (GB/T 17215.6 xx, "6" represents IEC 62056, "xx" denotes parts) IEC 62057 electrical measurement test equipment (GB/T 17215.7 xx, "7" represents IEC 62057, "xx" denotes parts) IEC 62058 AC measuring equipment acceptance test (GB/T 17215.8 xx, "8" represents IEC 62058, "xx" denotes Sections) IEC 62059 AC measurement devices credibility (GB/T 17215.9 xx, "9"

represents IEC 62059, "xx" represents the first of several section) GB/T 17215 series of standards currently has released seven criteria.

GB/T 17215.211-2006 AC measuring equipment General requirements, tests and test conditions Part 11. measuring equipment (IEC 62052-11:2003, IDT) GB/T 17215.301-2007-Meter special requirements GB/T 17215.311-2008 AC measuring equipment - Specific requirements - Part 11. Electromechanical meters for active energy (0.5, 1 and Level 2) (IEC 62053-11:2003, MOD) GB/T 17215.321-2008 AC measuring equipment - Specific requirements - Part 21. Static meters for active energy (1 and 2) (IEC 62053-21:2003, IDT) GB/T 17215.322-2008 AC measuring equipment - Specific requirements Part 22. Static meters for active energy (0.2S level and 0.5S level) (IEC 62053-22:2003, IDT) GB/T 17215.323-2008 AC measuring equipment - Specific requirements - Part 23. Static reactive power meter (level 2 and Level 3) (IEC 62053-23:2003, IDT) GB/T 17215.421-2008 AC measurement equipment tariff and load control Part 21. Particular requirements for time switches (IEC 62054-21:2004, IDT) Electrical measurement meter reading, tariff and load control Data exchange term Part 1. using DLMS/COSEM Measuring device to exchange data related terms

1 Scope

This section GB/T 17215 reflects some of the most important technique in 1999 after the publication IEC 62051, the international standard used in language. These new terms are used in GB/T 19882, GB/T 19897 series of standards to do a detailed description of the DLMS/COSEM, the main to exchange data with measurement equipment related.

This section applies to meter reading, tariff and load control.

2 Normative references

The following documents contain provisions which, through reference GB/T 17215 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2900.69-2005 Electrotechnical Terminology Integrated Services Digital Network (ISDN) - Part 1. General (IEC 60050-716-1.

1995, IDT)

GB/T 14733.4-1993 Terminology for telecommunications switching technology (neqIEC 60050-714.1992)

3.1 Terms and Definitions

Terms and definitions GB/T 2900.69 and GB/T 14733.4 and established the following terms and definitions apply to this section.

3.1.1

HDLC-based, connection-oriented Layer 3 protocol stack 3-layer, connection-oriented, HDLC-based profile OSI-based communication protocol stack structure of a simplified system, including the physical layer, based on a standard HDLC data link layer, and comprising for Application Control service components connected (ACSE) of COSEM application layer.

[GB/T 19897.4]

3.1.2

Abstract data and objects Unlike data measurements, which may be associated with one type of energy and the use of abstract interface object modeling.

[GB/T 19882.31 and GB/T 19882.32] 3.1.3 Operation ACTION Using a logical name (LN) references, call COSEM interface object method xDLMS data communication services. The availability of the service in xDLMS consistency block specified in the application using the connection is established negotiation.

[GB/T 19882.33]

3.1.4

Activation masks activationmask COSEM interface class "Register activation" element mask list of attributes. Activate mask defines which effectively mask when activated