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

GB/T 17215.701-2011

Reference meter for electrical energy

标准电能表

(English Translation)

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Foreword

This section prepared in accordance with GB/T 1.1-2009 given rules.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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, Shandong Electric Power Research Institute, Shenzhen Clou Electronics Technology Co., Ltd., China National Institute of Measurement Science, Shanghai EF Electronics Technology Co., Ltd., Henan Institute of Metrology, Henan Electric Power Company, Liaoning meter Amount Science Institute in Shandong Province Institute of Metrology, Shanghai Measurement and Testing Technology Research Institute, Taiyuan gifted Te Aoke Electronic Technology Co., Ningbo Sanxing Electric Co., Ltd., Zhengzhou three-hui Electric Co., Ltd., Zhejiang Han Pu Power Technology Co., Ltd., Henan Star Hi-Tech TECHNOLOGY CO., LTD.

Introduction

The purpose of the section is to provide a standard product for manufacturers and users to use such instruments, reflecting product orders technical specifications Most of the requirements.

This part of the capacity value, mechanical requirements, weather conditions, electromagnetic compatibility, electrical insulation as well as the accuracy and amount are based on current domestic impact A large number of technical parameters such instruments determined. On the level of accuracy of the technical requirements of the

standard 0.01 meter, in Senate According to the foundation in current technology requires the use of such instruments and type of inspection reports, combined with the actual development of the country.

This part of the standard meter with China specific conditions of production use, the main provisions of such instruments in terms of energy measurement Technical requirements, technical requirements in addition to other energy measurement of electrical parameters measured, should be in accordance to the instructions of the manufacturer.

Standard Meter

1 Scope

This section provides terms and definitions of the standard meter, product classification, conditions of use, technical requirements, test methods, inspection rules, marking Chi, packaging and storage, etc.

This section applies to the reference frequency of 50Hz (or 60Hz), in the laboratory for testing and calibration of active and (or) reactive energy meter mark Quasi-meter (hereinafter referred to as the instrument).

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (IEC 60068-2-1.

2007, IDT)

GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat (IEC 60068-2-2.

2007, IDT)

GB/T 2423.5-1995 environmental testing for electric and electronic products Part 2. Test methods experiment Ea and guidance. Shock (IEC 60068-2-27. 1987, IDT) GB/T 2423.10-2008 electric and electronic products environmental testing Part 2. Test methods experiment Fc. Vibration (sinusoidal) (IEC 60068-2-6:1995, IDT) GB/T 2829-2002 periodic inspection Sampling procedures and tables (suitable for process stability test) GB 4208-2008 housing protection (IP Code) (IEC 60529:2001, IDT) GB/T 5169.11-2006 Fire hazard testing for electric and electronic products - Part 11. Glowing/hot-wire based test methods to Glow-wire flammability test method for products (IEC 60695-2-11:2000, IDT) GB/T 5465.2-2008 Graphical symbols for electrical equipment - Part 2. Graphical symbols

(IEC 60417DB.2007, IDT) GB 9254-2008 Information technology equipment radio disturbance characteristics - Limits and methods of measurement (IEC/CISPR22.2006, IDT) GB/T 9969-2008 General Industrial Product Manual GB/T 11150-2001 energy meter testing device (IEC 60736. 1982, NEQ) GB/T 13384-2008 mechanical and electrical products packaging General technical conditions GB/T 16927.1-1997 high voltage test techniques - Part 1. General test requirements (IEC 60060-1. 1989, NEQ) GB/T 17215.211-2006 AC measuring equipment General requirements for tests and test conditions - Part 11. Measuring Equipment (IEC 62052-11:2003, IDT) GB/T 17215.321-2008 AC measuring equipment - Specific requirements - Part 21. Static meters for active energy (classes 1 and Level 2) (IEC 62053-21:2003, IDT) GB/T 17215.352-2009 AC measuring equipment - Specific requirements Part 52. Symbols (IEC 62053-52:2005, IDT) GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2001, IDT)