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GB/T 26831.3-2012

**Society energy metering for reading system specification -- Part
3: Dedicated application layer**

社区能源计量抄收系统规范 第3部分：专用应用层

(English Translation)

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Foreword

GB/T 26831 "Collecting community energy metering system specification" consists of the following four parts.

- Part 1. Data exchange;
- Part 2. Physical and link layer;
- Part 3. Dedicated application layer;
- Part 4. Wireless meter reading copy.

This section GB/T 26831 Part 3.

The standards refer to the European Standard EN13757. Wherein, Part 1, Part 2, Part 3 is equivalent to using the EN13757-1, EN13757-2, EN13757-3 corresponding portion, Part 4 combined with wireless meter reading technology status and national wireless Letter made major changes to the relevant standards.

This section uses the translation method identical with EN13757-3:2004 "meter and remote meter reading communication systems - Part 3. Special Applications Floor".

This section drafted 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.

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Introduction

As technology advances, economic development and the continuous improvement of people's energy management requirements, community (building and residence) energy demand (Water, electricity, gas, heat) Collecting and remote management technology into the rapid development stage, the emergence of the first to use various types of communication technology, involving A variety of products and technology solutions for each field of metrology. Product manufacturing side and the user side is eager to these products or systems to follow uniform standard.

Thus, since 1999, the International Electrotechnical Commission have published the IEC 62056 series of standards; the development of the country with reference to their content publishing the GB/T 19882 series of standards. The standard is an open system, a good solution to the interconnectivity and interoperability requirements. The standard body Department is divided into several independent part of the development, thus contributing to the continuous development of the standard itself. This scientific method and content of the standard are it provides a good reference for the national standards "Collecting community energy metering system specification." at the same time, for obvious reasons, community energy metering and automatic meter reading system meter reading system has many similar or common content now the products also have real demand for

interconnection, "Collecting community energy metering system Norms" and should be considered in coordination with the GB/T 19882 of.

The standard system is in the above context developed to recognize this background for understanding the development of ideas and understanding of the standards within this standard Yung are beneficial.

The standard system includes two aspects of community energy metering Collecting system application management and the underlying communications. In the application management, the main content is COSEM (Energy metering package specification), the use of object identity and instrument interface object model methods, and thus described Measuring instruments for remote meter reading and a dedicated application layer. Including and related to a short distance twisted pair baseband (M-BUS) in the underlying communications Wireless two physical layer, data link layer specification.

This section is part of the series EN13757, EN13757 applied to the instrument and remote meter reading communication system. The first part comprises General description and the communication protocol. The second part comprises a twisted pair baseband (M-Bus) physical layer and link layer. The fourth part (currently preparing Consulting) describes a wireless communication.

EN1434-3 bus communication system is commonly referred to M-Bus. Its application layer describes the main instrument used in copy reading standards.

Physical layer, link layer and the network layer and its ability to support a variety of variable-length binary transparent transmission of packets common use. usually, EN13757-2 (twisted pair baseband) and prEN13757-4 (wireless) or EN13757-1 physical and link layers of a description to be used.

Summary and further define the instrument is given in the communication system in EN13757-1.

This part of the original standard EN1434-3:1997 consistent expansion of 6.4 to 6.6 cases. In addition to some of the statements and achieve prompt, this standard also contains mainly suitable for modular instrumentation optional extensions. Due to technological developments in this standard was no longer supports some Variable (fixed format and mode 2 = first length byte).

It is noteworthy that this part contains only how to guide the encoded data (instructions). It goes beyond the standard definition of application layer Under what circumstances, which will react to the data transmission from the station after the task which type of transmission from the station, or which data.

Thus, according to this standard, through a common master software (including all optional features) from the station to ensure coexistence, public communication and can be read Force, but can not ensure this standard, or exchanged communications meter function on.