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

GB/T 21564.2-2008

**Message formats and protocols for serial data interfaces in
alarm transmission systems -- Part 2: Common application
layer protocol**

报警传输系统串行数据接口的信息格式和协议 第2部分：公用应用层协议
(English Translation)

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Foreword

GB/T 21564 "for serial data interfaces in alarm transmission systems of information formats and protocols" is divided into five parts.

- Part 1. General
- Part 2. Common application layer protocol
- Part 3. Common data link layer protocol
- Part 4. Public transport layer protocol
- Part 5. Data Interface this section GB/T 21564 Part 2.

The partial modification adopts the International Electrotechnical Commission IEC 60839-7-2:2001 (in English).

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

- Appendix date and time have content related to "year" are deleted, the data block length calculated from the beginning of May;
- Appendix "A.5 name/address" chapter, the data length of the "name" to "up to 8 characters + CR.", "Address 2" is replaced by "the most Length 48 characters + CR. ";
- Appendix "A.19" chapter, add annotations, using more easy to understand;

--- Remove the original IEC foreword, an increase of introduction.

This section of the Appendix A, Appendix B are normative appendix.

This part of the National Security Alarm System Standardization Technical Committee (SAC/TC100) and proposed centralized.

This section drafted by. China University of Mining (Beijing) Information and Electrical Department, SAC/TC100 Secretariat, Hubei Dongrun Technology Co., Ltd., Beijing Univision Aegis Security Technology Co., Ltd.

Introduction

Serial data communication is the main variety of communication model manifestations.

This section is based on the earlier point RS-232 and RS-485 communication model multipoint serial communication bus model developed of. Therefore, broadband applications and wireless transmission is currently being widely used not been detailed presentation, only in some links and comments given prompt.

Although the communication rate model This section gives slower, but the data transfer control theory and modern types of broadband applications and wireless applications Use is the same, so this part has a very good guide for alarm product designers, planners user alarm systems and alarm systems, etc.

The role and significance of the demonstration.

By the ITU-TV. 24 and ITU-TV. 28 provisions of the common interface, it is currently familiar EIA-RS232 interface, which is suitable for synchronous and asynchronous serial binary data exchange system, the interconnection between data terminal equipment serial interface protocol is an unbalanced Transmission, and to/from the transmission of information to other similar systems.

2 Normative references

The following documents contain provisions which, through reference GB/T 21564 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 section.

GB/T 21564.1-2008 serial data interfaces in alarm transmission systems of information formats and protocols - Part 1. General (IEC 60839-7-1:2001, MOD) GB/T 21564.4-2008 serial data interfaces in alarm transmission systems of information formats and protocols - Part 4. Common transport layer protocol Yee (IEC 60839-7-4:2001, MOD) ISO 8859-1

Information processing 8-bit single-byte coded graphic character sets - Part 1. Latin alphabet No. 1

3 Terms and Definitions

Terms and definitions GB/T 21564.1 established in this section apply to GB/T 21564 of.

4 Abbreviations

GB/T 21564.1 established abbreviations apply to this part of the GB/T 21564 of.

5 Application Layer Functionality

In alarm transmission systems, the application layer is responsible for the basic information required to transfer data to be formatted. It must also be remote from Respond with basic information layer.

The following functions, protocols, structure and format to meet the basic requirements of the serial data interface.

6 Basic data block

Alarms and other information to be transferred should be formatted into basic blocks. They consist of two or more bytes composed of 8 bits.