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

GB/Z 29619.1-2013

**Digital data communication for measurement and control --
Fieldbus for use in industrial control systems -- Type 8:
INTERBUS specification -- Part 1: Overview
(English Translation)**

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Foreword

GB/Z 29619 "Measurement and Control Digital Data Communications Industrial Control Systems Fieldbus Type 8. INTERBUS Specification" Former divided into the following six

sections.

- Part 1. Overview;
- Part 2. Physical layer specification and service definition;
- Part 3. Data Link Service Definition;
- Part 4. Data link protocol specification;
- Part 5. Application layer service definition;
- Part 6. Application layer protocol specification.

This section GB/Z 29619 Part 1.

This section drafted in accordance with the rules given GB/T 1.1-2009 and GB/T 20000.2-2009.

GB/Z 29619 modified using IEC 61158:2003 "Measurement and Control Digital Data Communications Industrial Control Systems Fieldbus" Part of the content, no adjustment in the technical content, the structure is divided into 6 parts to meet the needs of different users to use alone.

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

- a) According to the actual use of our country, in accordance with the provisions of GB/T 1.1-2009, the original text was edited editorial changes the content of surgery is exactly the same
- b) reference to the original text of other international standards have been adopted or modified as our standard, this part of our standard number instead Corresponding to the international standard number, the rest have not been the same or modified to use as our standard international advanced standards, are in this section Direct reference.

This part is proposed by China Machinery Industry Federation.

This part of the National Industrial Process Measurement and Control Standardization Technical Committee (SAC/TC124) centralized.

This part of the drafting unit. Machinery Industry Instrumentation Technology and Economy Institute, Tsinghua University, Southwest University, Beijing Iron and Steel Design and Research General Hospital, Shanghai Automation Instrumentation Co., Ltd., Shanghai Institute of Industrial Automation Instrumentation, Nanjing Phoenix Contact Electric Co., Ltd.

1 Scope

This part of GB/Z 29619 describes the structure of the INTERBUS specification and gives a short Overview.

Note 1: This section only provides users with narrative information.

In addition, a set of predefined communication profiles is specified.

Note 2: The communication profile defined in this section is equivalent to the profile of the communication profile (CPF6) of IEC 61784-1-2003.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 9387 (all parts) Information technology - Open Systems Interconnection Basic Reference Model (ISO/IEC 7498, IDT) GB/Z 29619.3 Measurement and control of digital data communications Fieldbus types for industrial control systems 8. INTERBUS specification Part 3. Data link service definition (GB/Z 29619.3-2013, IEC 61158:2003, MOD) GB/Z 29619.4 Measurement and control of digital data communications Fieldbus type for industrial control systems 8. INTERBUS specification Part 4. Data Link Protocol Specification (GB/Z 29619.4-2013, IEC 61158:2003, MOD) GB/Z 29619.5 Measurement and control of digital data communications Fieldbus type for industrial control systems 8. INTERBUS specification Part 5. Definition of application layer services (GB/Z 29619.5-2013, IEC 61158:2003, MOD) GB/Z 29619.6 Measurement and control of digital data communications Fieldbus type for industrial control systems 8. INTERBUS specification Part 6. Application layer protocol specification (GB/Z 29619.6-2013, IEC 61158:2003, MOD)

3 Symbols and abbreviations

The following symbols and abbreviations apply to this document.

AL ApplicationLayer application layer AP ApplicationProcess application process AR ApplicationRelationship Application Relationships ASE ApplicationServiceElement application service element BLL BasicLinkLayer Basic link layer CP CommunicationProtocol Communication protocol CRC CyclicRedundancyCheck Cyclic Redundancy Check DL-DataLinkLayer (asaprefix) Data Link Layer (used as a prefix) DLL DataLinkLayer data link layer DLPDU DL-protocol-data-unit data link protocol data unit IP InternetProtocol Internet (Internet) protocol MAC MediumAccessControl Media Access Control MAU MediumAttachmentUnit Media Attachment Unit PDL Peripherals DataLink Peripheral Data Link