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**TEXTILE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Application requirements of communication interface of
network management for cotton spinning preparatory and
cotton spinning machinery
(English Translation)**

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Foreword

Appendix A of this standard is a normative appendix, Appendix B is an informative annex.

The standard proposed by China Textile Industry Association.

This standard by the National Standardization Technical Committee Textile machinery and accessories.

The standard by the China Textile Machinery Association, Siemens (China) Co., Ltd., Wuxi Huaming Automation Technology Co., Shanghai Second Textile Machinery Co., Ltd., Branch Yuci Jingwei Textile Machinery shares, Qingdao Hongda Textile Machinery Co., Ltd., Jiangsu Hongyuan Textile Machinery Co., Ltd., Tianjin Hongda Textile Machinery Co., Ltd., Hubei Tianmen Textile Machinery Co., Ltd., Zhengzhou Textile Machinery Company Limited, Marzoli (Dongtai) Textile Machinery Co., Ltd., Rieter (Changzhou) Textile Instruments Co., Ltd., Dentsu Co., Ltd., Omron (in Country) Co., Ltd., Beijing Public SAGE Jie Technology Limited, Beijing Jingwei Textile Machinery New Technology Co., Ltd. is responsible for drafting.

Introduction

With the automation technology from a single control to more control, factory automation to the development, production of textile manufacturers in the production process, quality the amount of equipment operating status and other information to an online collection and

processing, and management of enterprise applications in the workshop or computer network monitoring and management Growing demand. In order to guide the development of different manufacturers, the production of cotton spinning plant equipment networking equipment used to meet the requirements, the preparation of begging. This standard is intended to address the interconnection of data between the network communications equipment and spinning device group monitoring center or central monitoring center, Specific content data is determined by the negotiation of manufacturing equipment, consumer equipment and network integration party.

Cotton spinning equipment and network management communication interface specification

1 Scope

This standard specifies the basic requirements for cotton spinning equipment for digital networking, centralized equipment management monitoring network, network-based device the request data structure of the communication interface specification, cotton spinning equipment network equipment.

This standard applies to cotton spinning equipment (see Appendix A) networking. Cotton spinning equipment manufacturers to develop, design, production should be considered in this standard Provides that when cotton production enterprises in the centralized control system building and spinning equipment can also select a reference to this standard.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 15157.7 Printed board connectors for frequencies below 3MHz Part 7. Assessment of quality with common mating features, 8-bit fixed and free connectors detailed specification
GB/T 15192 Graphical symbols for textile machinery GB/T 15629.3 LAN information processing systems - Part 3. Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications GB/T 15969.5-2002 Programmable controllers - Part 5. Communication Part 2 GB/T 16657.2 Industrial communication networks - Fieldbus specifications. Physical layer specification and service definition

3 Terms and Definitions

The following terms and definitions apply to this standard.

Fieldbus

Applied between manufacturing automation or process automation field devices, two-way, serial connection between field devices and control devices and multi-point Digital communication technology.

Open System Applications on different platforms in the communication system to a computer network, so that the correct implementation of the design can be provided in multiple vendors Run, it can interoperate with other applications, and to provide users with a unified style interface interactions.

Gateway

A network connection to another network gateway. The network equipment when needed can be used by a network interface and protocol conversion to Another different interfaces and protocols used by the network.

Node node

An intelligent control device in the network and communication media connected.

[GB/T 20299.4-2006, the definition 3.22] 3.5 Control network Monitoring sensors, control actuators, network management operations and provide a comprehensive set of network data access to means of.