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

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**Condition monitoring and diagnostics of machine systems -
Data processing, communication and presentation - Part 4:
Presentation**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" drafted.

This document is part 4 of GB/T 25742 "Machine Condition Monitoring and Diagnostic Data Processing, Communication and Representation". GB/T 25742

The following sections have been published.

--- Part 1. General Guidelines;

--- Part 2. Data processing;

--- Part 3. Communication;

--- Part 4. Representation.

This document is equivalent to ISO 13374-4:2015 "Machine Condition Monitoring and Diagnostic Data Processing, Communication and Representation - Part 4. Representation".

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

Currently, it is used for machine condition monitoring and diagnosis (CM

Plug and play with extensive communication infrastructure. In the absence of a common communication system, it is difficult to integrate various state monitoring and diagnostic

It is also difficult to display a unified machine status to the user when the breaker subsystem is integrated.

GB/T 25742 "Machine Condition Monitoring and Diagnosis Data Processing, Communication and Representation" is the framework of open condition monitoring and diagnosis software

Put forward some basic requirements, the architecture allows different software packages to monitor machine condition data and hardware without specific platforms and hardware protocols.

Information is processed, communicated and displayed, and consists of the following four parts.

--- Part 1.General guidelines. Software designed to provide data processing, communication and presentation of machine condition monitoring and diagnostic information

Specification guide.

--- Part 2.Data processing. The purpose is to provide more detailed data processing methods and what current software enhancement systems should have.

condition.

--- Part 3.Communication. The purpose is to specify the requirements for an open machine condition monitoring and diagnosis system data communication architecture.

--- Part 4.Representation. The purpose is to provide the information representation of the machine condition monitoring and diagnosis system, so as to facilitate the diagnosis analysis and decision-making.

support.

Machine condition monitoring and diagnosis data processing, communication

With Representation Part 4.Representation

1 Scope

This document specifies the relevant aspects of information representation for technical analysis and decision support in open condition monitoring and diagnostic systems.

Require. Software design professionals need to display diagnostic or predictive data, health information, alarms and recommendations on a computer and report in writing

form available to end users. This document specifies how this information is displayed in the Condition Monitoring and Diagnosis System.

2 Normative references

The contents of the following documents constitute essential provisions of this document

through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

Cabulary)

Note. GB/T 20921-2007 Machine Condition Monitoring and Diagnosis Vocabulary (ISO 13372:2004, IDT)

ISO 13374-1 Machine Condition Monitoring and Diagnostics Data Processing, Communication and Representation Part 1.General Guidance (Conditionmo-
eralguidelines)

Note. GB/T 25742.1-2010 Machine Condition Monitoring and Diagnostic Data Processing, Communication and Representation Part 1.General Guidelines (ISO 13374-1.
2003, IDT)

ISO 13374-2 Machine Condition Monitoring and Diagnostics Data Processing, Communication and Representation Part 2.Data Processing (Conditionmo-
processing)

Note. GB/T 25742.2-2013 Machine Condition Monitoring and Diagnosis Data Processing, Communication and Representation Part 2.Data Processing (ISO 13374-2.
2007, IDT)

3 Terms and Definitions

Terms and definitions defined in ISO 13372 apply to this document.

4 Information Architecture Representation Requirements for Open Condition Monitoring and Diagnosis

4.1 Overview

For a given system or application, the information architecture describes all data objects and their characteristics (or attributes), data types, data relationships, references

Use data and data files. According to the provisions of ISO 13374-2, an open condition monitoring and diagnostic information architecture specification as shown in Figure 1

The five levels shown are described.