

ICS 17.160

CCS J 04



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

GB/T 25742.3-2018

**Condition monitoring and diagnostics of machines -- Data
processing, communication and presentation -- Part 3:
Communication**

Issued on: March 15, 2018

Implemented on: October 1, 2018

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Open Condition Monitoring and Diagnosis (CM

4.1 Overview

1 shows the five levels described.

Foreword

GB/T 25742 "Machine Condition Monitoring and Diagnosis Data Processing, Communication and Representation" consists of four parts.

--- Part 1. General guidelines;

--- Part 2. Data Processing;

--- Part 3. Communications;

--- Part 4. Representation.

This part is Part 3 of GB/T 25742.

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

This section uses the translation method identical to ISO 13374-3:2012 "Machine Condition Monitoring and Diagnosis Data Processing, Communication and Presentation

Part 3. Communications.

The Chinese documents that have a consistent correspondence with the normatively quoted international documents in this section are as follows.

---GB/T 7408-2005 Data element and exchange format information exchange date and time representation (ISO 8601:2000,

IDT);

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

This part is proposed and managed by the National Standardization Technical Committee

for Mechanical Vibration, Impact and Condition Monitoring (SAC/TC53).

This section drafted by. Hangzhou Yiheng Technology Co., Ltd., Shanghai Special Equipment Supervision and Inspection Technology Research Institute, Zhejiang University.

Introduction

Currently used for machine condition monitoring and diagnostics (CM

Plug and Play with a wide range of communications infrastructure. Lack of multipurpose communication systems gives a lot of condition monitoring and diagnostics

(CM

The purpose of this series of standards is for open condition monitoring and diagnosis (CM

Machine status monitoring data and information for a variety of different software can be processed, exchanged, and exchanged without requiring specific platforms or specific hardware.

display.

GB/T 25742.1 gives general data processing, communication and presentation. GB/T 25742.2 provides more detailed data processing

Laws and current software enhancements required for the system. This section provides open state monitoring and diagnostics (CM

According to the basic conditions required for communication.

Machine condition monitoring and diagnostic data processing,

Communication and presentation Part 3. Communication

1 Scope

This part of GB/T 25742 gives open state monitoring and diagnosis (CM

The requirements for data communications. Software design professionals need defined communications to complete the CM between software systems

Exchange, this section can be used for condition monitoring and diagnosis (CM

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 25742.1-2010 Machine condition monitoring and diagnostic data processing, communication and presentation Part 1. General guidance (ISO

13374-1.2003, IDT)

GB/T 25742.2-2013 Machine Condition Monitoring and Diagnosis Data Processing, Communication and Presentation Part 2. Data Processing (ISO

13374-2.2007, IDT)

ISO 8601 data element and exchange format information exchange date and time representation (DataElementsandinterchange

formats-Informationinterchange-Representationofdatesandtimes)

ISO 13372 Machine Condition Monitoring and Diagnostic Vocabulary (Conditionmonitoringanddiagnosticsofmachines-Vo-

Cabulary)

ISO /IEC 19501 Information Technology Open Distribution Processing Unified Modeling Language (Informationtechnology-OpenDis-

tributedProcessing-UnifiedModelingLanguage)

3 Terms and definitions

The terms and definitions defined in ISO 13372 apply to this document.

4.1 Overview

For a given system or application, the information structure describes all data objects and their data objects for a particular system and application

Features (or attributes). An open state monitoring and diagnosis (CM) as described in GB/T 25742.2