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

GB/T 42286.2-2022

**Electronic railway equipment - On board driving data recording
- Part 2: Conformity testing**

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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 for Standardization Documents" drafting.

This document is the second part of GB/T 42286 "In-vehicle Driving Data Recording of Rail Transit Electronic Equipment". GB/T 42286 has

The following parts were released.

--- Part 1. Technical specifications;

--- Part 2. Conformance testing.

This document is modified to adopt IEC 62625-2:2016 "Rail Transit Electronic Equipment On-board Driving Data Recording System Part 2. Consistent

Sex Test.

Compared with IEC 62625-2:2016, this document has made the following structural adjustments.

--- Chapter 4 corresponds to 3.2 of IEC 62625-2:2016;

--- Chapter 5 corresponds to Chapter 4 of IEC 62625-2:2016;

--- Chapter 6 corresponds to Chapter 5 of IEC 62625-2:2016;

--- Chapter 7 corresponds to Chapter 6 of IEC 62625-2:2016;

--- Chapter 8 corresponds to Chapter 7 of IEC 62625-2:2016, of which 8.1 corresponds to 7.7.1 and 8.2 of IEC 62625-2:2013

7.7.2 and 8.3 of IEC 62625-2:2013 correspond to 7.7.3 of IEC 62625-2:2013.

The technical differences between this document and IEC 62625-2:2016 and their reasons are as follows.

--- Deleted the relevant content of the conformity assessment scheme in Chapter 1 of IEC 62625-2:2016, the content of this document does not include the assessment method

case, delete relevant content to prevent ambiguity (see Chapter 1 of IEC 62625-2:2016);

--- Replaced IEC 60571 with normative reference GB/T 25119 (see 7.2, 6.2 of IEC 62625-2:2013), two documents

The degree of consistency between is modified to adapt to the technical conditions of our country and increase operability;

--- Replaced IEC 62498-1 with normatively quoted GB/T 32347.1 (see 7.1.4, 7.2, IEC 62625-2:2013

6.1.4, 6.2), the degree of consistency between the two documents is modified to adapt to the technical conditions of our country and increase operability;

--- Replaced IEC 61375 (all parts) with normatively referenced GB/T 28029 (all parts) (see 6.2, 7.1.17,

5.2, 6.1.17 of IEC 62625-2:2013), the degree of consistency between the two documents is modified to adapt to the technical conditions of our country

pieces, increase operability;

--- Replaced IEC 62625-1.2013 with the normative reference GB/T 42286.1-2022 (see Chapter 1, Chapter 5 ~ Chapter 7

Chapter 1, Chapter 4~Chapter 6 of IEC 62625-2.2013), the degree of consistency between the two documents is modified to suit

In response to the technical conditions of our country, the operability is increased;

--- Added GB/T 42286.1-2022 (see Chapter 3) for normative references.

The following editorial changes have been made to this document.

---Change the name of the standard to "Onboard Driving Data Recording of Rail Transit Electronic Equipment Part 2.Conformance Test" (see standard name

name, the standard name of IEC 62625-2.2016);

--- Changed the abbreviation "GPS" to "GNSS" (see Chapter 4, 3.2 of IEC 62625-2.2016);

--- Added the note of the abbreviation "ODDRS" and the abbreviation "MTBF" (see Chapter 4);

---Deleted the abbreviations "EMC", "IDRR", "ITTR", "RAL", "TLDRR" and "TLTR" (see 3.2 of IEC 62625-2.2016);

--- Added legend to Figure 1 (see 5.1.3.1);

---Change the RAL color card to RGB (see 6.1.6, 6.2, 5.1.6, 5.2 of IEC 62625-2.2016);

--- Deleted No. 1 of Table 9 in IEC 62625-2.2016, No. 1, No. 12 and No. 1 of Table 24 in IEC 62625-2.2016

No. 48 (see 6.1.4, 6.2 of IEC 62625-2.2016).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

This document develops a standardized

Conformance testing method.

GB/T 17178 is based on the concept of protocol implementation consistency description and test protocol implementation additional information, applicable to the evaluation of communication protocols

estimate. This document expands the functional and

Concepts related to system description.

GB/T 42286 "In-vehicle Driving Data Recording of Rail Transit Electronic Equipment" is proposed to be composed of three parts.

--- Part 1. Technical specifications. The purpose is to standardize the general functions and system requirements for in-vehicle driving data recording.

--- Part 2. Conformance testing. The purpose is to propose a consistency test method to verify whether the realization of on-board driving data recording is

Meet the requirements specified in GB/T 42286.1-2022.

--- Part 3. Audio and video recording specifications. The purpose is to standardize audio and video technical requirements for in-vehicle driving data recording.

On-board driving data recording of rail transit electronic equipment

Part 2. Conformance testing

1 Scope

This document specifies standardized test methods (by introducing functional conformance statements, system implementation conformance statements and testing

The relevant concepts of function and system description are extended with the implementation of additional information) to verify the implementation of the vehicle driving data recording system and

Consistency between the requirements specified in GB/T 42286.1-2022.

This document specifies the pass criteria for conformance testing of designed and manufactured in-vehicle driving data recording systems.

This document specifies a list of requirements including those specified in GB/T 42286.1-2022, as well as requirements in design review, type inspection and delivery inspection.

Relevant acceptance conditions for the on-board driving data recording system in the stage.

For the train-level design review phase and the train-level test phase, the conformance test method provided in this document is applicable to on-board driving data

system of record.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is