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

GB/T 31455.4-2025

Replacing GB/T 31455.4-2015

**Intelligent system of bus rapid transit (BRT) - Part 4: Technical
requirements of depot and platform control systems and
peripheral equipment**

快速公交（BRT）智能系统 第4部分：场站站台控制系统及外围设备技术要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document is Part 4 of GB/T 31455 "Intelligent Systems for Bus Rapid Transit (BRT)". GB/T 31455 has the following publications. part.

- 1.General Technical Requirements;
- 2.Technical Requirements for the Dispatch Center System;
- 3.Technical Requirements for Vehicle-Mounted Intelligent Terminals and Peripheral Equipment;
- 4.Technical Requirements for Station Platform Control Systems and Peripheral Equipment;
- 5.Communication Data Interface Specification between Dispatch Center and Vehicle-Mounted Intelligent Terminal;
- 6.Communication Data Interface Specification between Dispatch Center and Station Platform Control System;
- 7.Specification for Communication Data Interface between Bus Priority Equipment and Traffic Signal Controllers This document replaces GB/T 31455.4-2015 "BRT Intelligent Systems - Part
- 4.Station Platform Control Systems and External Access Control Systems". Compared with GB/T 31455.4-2015, the main technical changes in the "Technical Requirements for Enclosure Equipment" are as follows, except for structural adjustments and editorial modifications.

- a) The general requirements have been changed (see Chapter 5, Chapter 5 of the.2015 edition);
- b) Modified the "Control Host", "LED Information Display Screen", "LCD Information Display Screen", "Electronic Bus Stop Sign", "Departure Display Screen", and "Ticket Issuance and Inspection Equipment". Technical requirements for "equipment", "turnstiles", "network digital cameras", "broadcast microphones", "self-service inquiry devices" and "video encoders" (see [link]). Versions 6.1-6.5, 6.7-6.9, 6.12, 6.15, and 6.16 (and the.2015 versions of 6.1-6.5, 6.7-6.9, 6.12, 6.15, and 6.16) have been updated. Requirements for "vehicle-road cooperative equipment roadside units" and "passenger counters" (see 6.18, 6.19);
- c) The protocol structure has been changed (see 7.1,.2015 version 7.1);
- d) Changes to the data frame type (see 7.3.1,.2015 version 7.3.1);

1 Scope

GB/T 31455.4-2025 is the Chinese national standard covering the station and depot equipment of a BRT line - the platform screen doors and their interlocking with the bus, the fare gates, the passenger information displays and the depot systems that dispatch and receive the fleet. Part 4 of the series. It replaces GB/T 31455.4-2015. It was issued on 31 December 2025 and has been in force since 1 July 2026, replacing GB/T 31455.4-2015. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the general requirements, technical requirements, and interfaces for the station platform control system and peripheral equipment in the Bus Rapid Transit (BRT) intelligent system. specification. This document applies to the construction and management of station platform control systems and peripheral equipment in intelligent bus rapid transit systems.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2312 Basic Set of Chinese Character Coded Character Set for Information Interchange

GB/T 2423.17 Environmental testing - Part

3 Terms and Definitions

Terms and definitions defined in GB/T 31455.1, GB/T 31455.2, GB/T 32852.1, GB/T 32852.2 and JT/T 1059.1 This applies to this document.

4. Abbreviations The following abbreviations apply to this document.

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