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

GB/T 46688-2025

**Technical specification for alarm information and fault grading
for vehicles of urban rail transit**

城市轨道交通车辆报警信息及故障分级技术规范

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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. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Transport of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Urban Passenger Transport (SAC/TC529). This document was drafted by: CRRC Qingdao Sifang Co., Ltd., China Academy of Transportation Sciences, and Beijing MTR Corporation. Limited Liability Company, Beijing Subway Operation Co., Ltd., Beijing Jiaotong University, CRRC Zhuzhou Electric Locomotive Co., Ltd., Zhengzhou Metro Group Co., Ltd. Company, Foshan CRRC Sifang Rail Vehicle Co., Ltd., China Railway Electrification Bureau Group Co., Ltd., Harbin Metro Group Co., Ltd., Jinan Rail Transit Group Co., Ltd., CCCC (Tianjin) Rail Transit Investment and Construction Co., Ltd., Qingdao Metro Group Co., Ltd., Xuzhou Metro Operation Operating Co., Ltd., Foshan Nanhai District Railway Investment Co., Ltd., Wuhan Optics Valley Transportation Investment Group Co., Ltd., Zhejiang Provincial Rail Transit Operation Co., Ltd. Management Group Co., Ltd., Beijing Hongtu Directional Transportation Technology Co., Ltd., and Traffic Control Technology Co., Ltd. The main drafters of this document are. Xu Lei, Jian Jikai, Sun Zhaolan, Li Songfeng, Wang Qi, Yang Tingzhi, Luo Xin, Wang Jiangtao, Wu Gaohua, Liu Han, and Gong Qiaolin. Li Kelei, Zhang Yu, Jiang Shan, Du Guang, Yao Xiangming, Liu Tai, Chen Zhongjie, Wu Jian, Chen Qi, Zhang Hongxin, Zhang Yan, Wang Hongxiang, Liu Haidong, Li Zhibin, Xing Chunyang Xu Kaige, Feng Zexi, Wang Anjun, Xu Binbin, Chen Delin, Wang Huawei, Zhang Xu, Li He, Wang Yiming, Qin Xuemei. Urban rail transit vehicle alarm information and fault classification

Technical Specifications

1 Scope

GB/T 46688-2025 is the Chinese national standard covering the fault reporting of a metro train - the grading from a defect that can wait for the depot to one that requires the train to be detrained, the information each alarm carries to the driver and to the control centre, and the recording for maintenance. First edition, with the signalling system standard GB/T 46690-2025. In force from 1 February 2026. Issued on 31 October 2025, it has been in force since 1 February 2026.

This document specifies the general requirements, alarm information requirements, and fault classification requirements for urban rail transit vehicles. The question describes the verification method. This document applies to the composition of alarm information and the classification of faults in urban rail transit vehicles. Other types of vehicles can refer to this document for reference.

Note. The urban rail transit vehicles mentioned in this document include subway system vehicles, light rail system vehicles, and urban rapid rail system vehicles.

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 7928 General Technical Conditions for Metro Vehicles

GB/T 32852.3 Urban Passenger Transport Terminology Part

3 Terms and Definitions

The terms and definitions defined in GB/T 7928 and GB/T 32852.3, as well as the following terms and definitions, apply to this document.

3.1 fault The system or device is in a state where it cannot perform its intended function.

Note. This excludes preventative maintenance or other planned activities, or situations where external resources are unavailable. [Source: GB/T 7826-2012, 3.3, with modifications]

3.2 alarm Provide visual or auditory information to operators that indicates a fault or other abnormal event that requires a response.

Note. Alarms are divided into fault alarms and other abnormal event alarms. [Source: GB/T

41261-2022, 3.1.7, with modifications]

4. Abbreviations The following abbreviations apply to this document. BCU. Brake Control Unit ERM. Event Recorder (EventRecordModule)

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