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

GB/T 34838-2026

Replacing GB/T 34838-2017

**General technical specification for the equipment and
installation of electronic musical instrument teaching systems**

电鸣乐器教学系统配备及安装通用技术规范

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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. This document supersedes GB/T 34838-2017 "General Technical Specifications for the Configuration and Installation of Teaching Systems for Electric Musical Instruments" and is consistent with GB/T 34838-2017, aside from structural adjustments and editorial changes, the main technical changes are as follows:

---The term "user" has been removed (see

3.5 in the 2017 edition);

---The basic components of the electric musical instrument teaching system have been changed (see Chapter 4, Chapter 4 of the 2017 edition);

---Added requirements for synthesizers for electric musical instruments (see 5.1.8);

---The requirements for display devices have been changed (see 5.1.10, version

---The requirements for using security have been changed (see 5.1.11,

5.1.10 in the 2017 version);

---The requirements for power supply interference voltage and interference power have been removed (see

5.1.11 in the.2017 version);

---Added electromagnetic compatibility emission requirements (see 5.1.12);

---The requirements for harmonic current limits have been changed (see 5.1.13, 5.1.12 in the.2017 version);

5.1 Basic Performance Requirements

5.1.1 Electronic Keyboard It should comply with the provisions of GB/T 12105.

5.1.2 Electronic Piano It should comply with the provisions of QB/T 1477.

5.1.3 Electronic Organ It should comply with the provisions of QB/T 4488.

5.1.4 MIDI Keyboard It should comply with the provisions of QB/T 4015.

5.1.5 Electronic Drums It should comply with the provisions of QB/T 4014.

5.1.6 Electric Guitar It should comply with the provisions of QB/T 2169.

5.1.7 Multifunctional Speaker It should comply with the provisions of QB/T 4325.

5.1.8 Electro-musical synthesizer It should comply with the provisions of QB/T 5911.

5.1.9 Computer

5.1.9.1 Desktop microcomputers shall comply with the provisions of GB/T 9813.1.

5.1.9.2 Portable microcomputers shall comply with the provisions of GB/T 9813.2.

5.1.10 Display devices It should comply with the provisions of SJ/T 11292.

5.1.11 Safety in Use It should comply with the provisions of Chapters 4 to 6, 7.6, and Chapters 8 to 10 of GB 4943.1-2022.

5.1.12 Electromagnetic Compatibility Emission Requirements It should comply with the requirements of Chapter 5 of GB/T 9254.1-2021.

5.1.13 Harmonic Current Limits It should comply with the provisions of Chapter 7 of GB 17625.1-2022.

5.1.14 Radio Frequency

5.1.14.1 Directory Management Devices that make up a wireless local area network should be included in the catalog of low-power short-range radio transmitting devices.

Note. For a catalog of low-power short-range radio transmitting equipment, please refer to the "Catalog and Technical Requirements of Low-Power Short-Range Radio Transmitting Equipment".

5.1.14.2 Technical Requirements The devices that form a wireless local area network shall comply with the provisions of Chapters 4 and 5 of YD/T 3168-2016.

5.1.15 Limits for Hazardous Substances

5.1.15.1 Electric musical instruments shall comply with

5.6 of GB 28489-2022.

5.1.15.2 Computers, display devices and auxiliary electrical and electronic equipment shall comply with the provisions of Chapters 4 to 6 of GB 26572-2025.

5.1.16 Energy Consumption

5.1.16.1 Electric musical instruments shall comply with the provisions of Chapter 6 of GB/T 37878-2019.

5.1.16.2 The computer shall comply with the provisions of Chapter 4 of GB 28380-2025.

5.1.16.3 The display shall comply with the provisions of Chapter 5 of GB 21520-2023.

5.1.17 Certification Equipment that requires certification should be certified and should bear the certification mark permitted for use by the state.

5.2 Classroom Classrooms should be located in a place that does not interfere with other teaching rooms, and the interior should have soundproofing design, complying with

5.8 of GB 50099-2011. The provisions of Chapter 9.

5.3 Qualifications of installation and commissioning personnel Installation and commissioning personnel should undergo professional training and obtain the corresponding electrician professional qualification certificates.

5.4 Installation

5.4.1 Power Supply System The power supply for the electric musical instrument teaching system should adopt a three-phase five-wire (TN-S) system.

5.4.2 System Cabling The electrical wiring of the electric musical instrument teaching system shall comply with the provisions of Chapters 3 to 8 of GB 50311-2016.

5.4.3 Safety Protection

5.4.3.1 The lightning protection and grounding of the electric musical instrument teaching system shall comply with the provisions of Chapters 5 to 8 of GB 50343-2012.

5.4.3.2 The fire protection of electric musical instrument teaching systems shall comply with the provisions of Chapter 9 of GB 50311-2016.

5.4.4 Equipment Installation

5.4.4.1 Before installing the equipment, the qualification certificates of the installers and commissioning personnel should be verified.

5.4.4.2 Each piece of equipment shall be installed in accordance with the requirements of the product manual.

5.4.4.3 The installed equipment should be safe and reliable, and should be able to ensure normal use by the user.

5.4.4.4 The installed system should have sufficient strength, stability, and reliability, and should comply with Chapter 8 of GB 4943.1-2022. Require.

5.4.4.5 Safe passageways for users to enter and exit the system shall be provided, and the safe passageways shall comply with 8.2, 8.5, 8.6, and

8.8 of GB 50099-2011. According to the regulations.

6 Recycling of waste systems

6.1 General Principles It should comply with the provisions of Chapter 4 of GB/T 31731-2015.

6.2 Classification, recycling, dismantling, storage, utilization, treatment and disposal of waste systems The provisions of Chapters 5 to 10 of GB/T 31731-2015 shall be followed.

7 Operation and Acceptance

7.1 In accordance with the product manual or contract, the electric musical instrument teaching system shall be powered on, debugged, and tested for operation according to its predetermined functions. The predetermined functions should be... All passed.

7.2 The electrical wiring of the electric musical instrument teaching system shall be inspected and accepted in accordance with the provisions of GB 55024.