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

GB/T 30104.103-2026

Replacing GB/T 30104.103-2017

**Digital addressable lighting interface - Part 103: General
requirements - Control devices**

数字可寻址照明接口 第103部分：一般要求 控制设备

(English Translation)

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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 103 of GB/T 30104, "Digital Addressable Lighting Interfaces". GB/T 30104 has the following parts published.

- Part 101: General Requirements for System Components;
- Part 102: General Requirements for Control Devices;
- Part 103: General Requirements for Control Equipment;
- Part 104: General Requirements for Wireless and Other Wired System Components;
- Part 150: Special Requirements for Auxiliary Power Supply;
- Part.201.Special Requirements for Control Devices for Fluorescent Lamps (Equipment Type 0);
- Part 202: Special Requirements for Control Devices - Self-Contained Emergency Lighting (Equipment Type 1);

- Part 203: Special Requirements for Control Devices Discharge lamps (excluding fluorescent lamps) (Equipment Type 2);
- Part 205: Special Requirements for Control Devices. Incandescent Lamp Power Supply Voltage Controller (Equipment Type 4);
- Part 206: Special Requirements for Control Devices. Digital Signal Conversion to DC Voltage (Equipment Type 5);
- Part 207: Special Requirements for Control Devices - LED Modules (Equipment Type 6);
- Part 208: Special Requirements for Control Devices (Switching Function) (Equipment Type 7);
- Part 209: Special Requirements for Control Devices - Color Control (Equipment Type 8);
- Part 220: Special Requirements for Control Devices - Central Power Supply and Emergency Operation (Equipment Type 19);
- Part 221: Specific Requirements and Responses for Control Devices (Equipment Type 20);
- Part 222: Special Requirements for Control Devices - Thermal Lamp Protection (Equipment Type 21);
- Part 224: Special Requirements for Control Devices - Non-replaceable Light Sources (Equipment Type 23);
- Part 250: Special Requirements for Integrated Power Supply (Equipment Type 49);
- Part 301: Special Requirements for Input Device Buttons;
- Part 302: Special Requirements for Input Devices - Absolute Input Devices;
- Part 303: Special Requirements for Input Device Occupancy Sensors;
- Part 304: Special Requirements for Input Devices (Optical Sensors);
- Part 333: Manual configuration of special requirements for control equipment (characteristic type 33).

This document replaces GB/T 30104.103-2017 "Digital Addressable Lighting Interfaces - Part 103: General Requirements for Control Devices".

Compared with GB/T 30104.103-2017, the main technical changes in the revised version are as follows, except for structural adjustments and editorial modifications.

- a) The scope of this document has been changed (see Chapter 1, Chapter 1 of the 2017 edition);
- b) Added read-only non-volatile memory, read-write non-volatile memory, read-only random

access memory, and read-write random access memory.

- c) Added feature type coding corresponding to device functions, as well as detailed information on different function types (see 9.3, 2017 version).
- d) Additional measurements were added (see 9.8);
- e) The static mode requirement has been changed (see 9.10.4, version 9.9.3 of the 2017 release);
- f) The requirements for the storage bank have been changed (see 9.11, 9.10 in the 2017 version);
- g) The requirements for device capability and status information have been changed (see 9.17, 9.16 in the 2017 version);
- h) The requirements for non-volatile memory have been changed (see 9.18, 9.17 in the 2017 edition);
- i) Increased instance and configuration requirements (see 9.19);
- j) Added requirements for the current bus unit configuration (see 9.20);
- k) The requirements for device control commands have been changed (see 11.4, 2017 version 11.4);
- l) The requirements for instance control commands have been changed (see 11.7, version 2017);
- m) The requirements for instance configuration commands have been changed (see 11.8, version 2017 of 11.8);
- n) The requirements for instance queries have been changed (see 11.9, version 2017 of 11.9);
- o) The requirement for test procedures has been removed (see Chapter 12 of the 2017 edition).

This document is modified to adopt IEC 62386-103:2022 "Digital addressable lighting interfaces - Part 103: General requirements - Control devices".

The technical differences between this document and IEC 62386-103:2022, and the reasons therefor, are as follows.

---IEC 62386-101 has been replaced with the normatively referenced GB/T 30104.101 (see Chapter 3, 9.11.7) to adapt to my country's technical standards.

Improve technical conditions and increase operability;

7.2.2.3, 9.2, 9.5.3, Table 4, 9.5.4, Table 5, 9.7.4, 9.8.2, 9.8.4, 9.11.10, 9.13.1, 9.14.2, 9.17.2, 9.19 Acting.

The following editorial changes have been made to this document.

---IEC 62386-104 has been replaced by GB/T 30104.104 (see Tables 15, 16, 23, and 24).

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 China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Lighting Appliances (SAC/TC224).

Introduction

GB/T 30104 (all parts) describes a bus system for controlling electronic lighting equipment via digital signals, which is proposed to consist of the following Partial composition.

Part 103 provides general requirements for control devices; Part 104 provides general requirements for control equipment; Part 105 provides wireless...

General requirements for replacement wired system components; Part 150 specifies the requirements for auxiliary power supplies, which may be independent.

It can also be built into a control device or control equipment.

Special requirements for control devices for specific types of light sources.

GB/T 30104.102 is used together for control equipment.

GB/T 30104 is published as a series of standards divided into several parts to facilitate future revisions and additions as needed.

Other requirements.

The structure of the series of standards is shown in Figure 1 below.

102 General requirements for control devices 103 General requirements for control equipment

101 General Requirements for System Components

Figure 1 Overview of GB/T 30104

Other parts also include additional supplementary requirements.

Unless otherwise stated, all numbers used in this document are decimal numbers. Hexadecimal numbers are given in 0xVV format.

The "x" in the number represents "any value".

Use the following typographical methods.