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

GB/T 18656-2025

Replacing GB/T 18656-2002

**Industrial systems, installations and equipment and industrial
products - Identification of terminals within a system**

工业系统、装置与设备以及工业产品 系统内端子的标识

(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 supersedes GB/T 18656-2002 "Identification of Terminals in Industrial Systems, Apparatus and Equipment and Industrial Product Systems", and is consistent with...

Compared with GB/T 18656-2002, apart from structural adjustments and editorial changes, the main technical changes are as follows.

---The terms "component," "identifier," and "object designation" have been added. All terms reference IEC 81346-1, second edition (see sections 3.6, 3.7, and 3.8).

3.12);

---A more comprehensive description of the principles for terminal designation is provided (see 4.1, 2002 edition of 4.1);

---Example of terminal designation for the position face (see 4.4);

---A design example of the terminal code set has been added (see 4.5);

---The content of the original Appendix A has been moved to the main text (see Chapter 5).

This document adopts IEC 61666:2021 "Identification of terminals within industrial systems, apparatus and equipment and industrial product systems".

The following minimal editorial changes have been made to this document.

---The normative reference IEC 81436-1, which was not cited in the text, has been removed.

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 and is under the jurisdiction of the National Technical Committee on Standardization of Electrical and Information Structures, Documentation and Graphic Symbols (SAC/TC27).

1 Scope

This document establishes the rules for assigning terminal codes to objects within the system, applicable to all technical fields (such as mechanical engineering, electrical engineering, construction, etc.).

Construction engineering and process engineering can be used in systems with a single different application technology or systems with multiple application technologies.

This document does not include requirements regarding the marking of terminal codes on the product.

Note: This document is based on the general principles of system architecture established in the ISO/IEC 81346 series jointly published by IEC and ISO, including the structure of system information.

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 6988.1-2024 Preparation of documents for electrical engineering purposes - Part 1: Rules (IEC 61082-1:2014, IDT) Note. There are no technical differences between the content referenced in GB/T 6988.1-2024 and the content referenced in IEC 61082-1:2006.

Note: GB/T 5465 (all parts) Graphical symbols for electrical equipment (IEC 60417 Database) IEC 60445 Basic and safety rules for human-machine interface markings. Marking of equipment

terminals and conductor terminations.

Note: GB/T 4026-2025 Basic and safety rules for human-machine interface signage - Identification of equipment terminals, conductor terminations and conductors (IEC 60445.

2021, IDT)

Note: GB/T 13534-2009 Color Codes (IEC 60757:1983, IDT) IEC 81714-3 Technical Documentation - Rules for the Representation of Networks Using Graphical Symbols - Part 3: Classification and Coding of Connection Points and Networks (Design of...) Note. GB/T 16901.3-2009 Technical Documentation Rules for the Representation of Graphical Symbols Part 3: Classification and Coding of Connection Points and Networks (IEC 81714-3.

2004, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

object

Independent entities involved in the research, development, manufacturing, use, and disposal of materials.

Note 1: The object can refer to a real or non-real "thing", such as something that may exist or is certain to exist.

Note 2: An object refers to a set of information related to it.

[Source. GB/T 5094.1-2018, 3.1, with modifications]