

ICS 01.080.01

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

GB/T 16900.2-2020

**Rules for the presentation of graphical symbols - Part 2:
Method for testing comprehensibility**

Issued on: March 31, 2020

Implemented on: October 1, 2020

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

GB/T 16900 is one of the national standards in the "Graphic Symbol Representation Rules" series. The structure and name of this series of national standards are as follows.

a) GB/T 16900 "Graphic Symbol Representation Rules" is intended to be divided into the following 4 parts.

- Part 1. General Provisions;
- Part 2. Understanding test method;
- Part 3. Perception test method;
- Part 4. Object correlation test method.

b) GB/T 16901 "Rules for Representing Technical Documents with Graphic Symbols" is divided into the following parts.

- Part 1. Basic rules.

c) GB/T 16902 "Rules for expressing equipment with graphical symbols" is divided into the following 5 parts.

- Part 1. Design principles of symbol original drawings;
- Part 2. The form and use of arrows;
- Part 3. Application Guidelines;
- Part 4. Guidelines for redrawing graphical symbols as icons;
- Part 5. Design guidelines for icons.

d) GB/T 16903 "Design Principles and Requirements for Graphic Information Symbols for

Symbols Representing Rules of Graphic Symbols".

This part is Part 2 of GB/T 16900.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 16903.2-2013 "Rules for the representation of signs with graphical symbols Part 2. Test method for understanding", and

Compared with GB/T 16903.2-2013, the main technical changes are as follows.

- Deleted the specific entries in the terminology of Chapter 3 (see Chapter 3 of the.2013 edition);
- Simplify the information that needs to be collected before the test to prepare for the test, and move the specific requirements of the test to the stored test materials (see section (Chapter 5 and 6.2, Chapter 5 of the.2013 edition);
- Removed the requirements for evaluation and evaluation (see Chapter 7 of the.2013 edition);
- Deleted the material samples and related forms of evaluation and evaluation (see Appendix B of the.2013 edition).

This part uses the redrafting method to modify the use of ISO 9186-1..2014 "Graphic Symbol Test Method Part 1. Understanding Test method".

Compared with ISO 9186-1..2014, this part has the following structural changes.

- Change Chapter 5 from suspended paragraph to untitled first-level article;
- Change the suspended section under 6.4, 6.5, 6.6, 6.7 to the untitled second level.

The technical differences between this part and ISO 9186-1..2014 and the reasons are as follows.

--- With regard to normative quotation documents, this part has been adjusted with technical differences to adapt to China's technical conditions and adjustments

The situation is reflected in Chapter 2 "Regulatory Reference Documents", with specific adjustments as follows.

- * Replace ISO 17724 with GB/T 15565 (see Chapter 3);
- * Replace ISO 9241-400 with GB/T 18978.400 equivalent to international standards (see 6.2.6);
- * Replace the obsolete ISO 9241-12 with ISO 9241-125 (see 6.2.6).
- Move the second paragraph in the "Scope" that does not meet the requirements of GB/T

1.1-2009 to the introduction.

--- Deleted specific items in the terms (the terms have been defined in GB/T 15565).

--- Due to the fact that China has not yet carried out the proposal of standardization of graphical symbols, it is necessary to delete or modify

No. Standardization proposal related requirements, such as deleting the first paragraph of Chapter 5 and Note 1, amending "Proposer" in 5.2, the first paragraph of 6.3.1.

--- Change ISO 9186-1..2014 test requirements for different countries to test requirements for different regions, such as 6.2.2, 6.3.1.

--- The education level has been described in terms of our country, so delete the relevant description of Note 3 in 6.2.2.

The following editorial changes have been made in this section.

--- Modify the standard name to "Graphic Symbol Representation Rules Part 2. Understanding Test Method";

--- Replace some graphic symbols in ISO 9186-1..2014 with graphic symbols in national standards, such as A.3, A.4.

This part is proposed and managed by the National Graphic Symbol Standardization Technical Committee (SAC/TC59).

This section was drafted by. China National Institute of Standardization, China Earthquake Disaster Prevention Center, China Home Appliance Research Institute

Introduction

Due to the increasing use of non-verbal forms as information expression in buildings, other places and public services, multinational travel

The continuous growth of travel, tourism and trade also requires that the graphical symbols used can be understood, so this part of GB/T 16900 is formulated.

The purpose of preparing this part is to formulate graphic symbols that can be correctly understood by users even without supplementary text (ie explanatory text).

If the developed graphic symbol cannot meet this requirement, the graphic symbol may need to be used together with the supplementary text (the supplementary text is used for potential use

The author 's language explains the meaning of the graphic symbols).

This section is intended for use by all technical committees responsible for formulating special graphical symbols in the industry to ensure that there is a one-to-one correspondence between graphical symbols and meanings.

Any other organization that needs to understand the understanding of graphical symbols can also be used.

Graphical symbol representation rules

Part 2. Understanding test method

1 Scope

This part of GB/T 16900 specifies the test method for the understanding of graphic symbols.

The accuracy of the period information.

This section applies to testing the understanding of graphical symbols.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article

Pieces. For the cited documents without date, the latest version (including all amendments) applies to this document.

GB/T 15565 Graphic symbol terms

GB/T 18978.400 Ergonomics of human-system interaction Part 400. Principles and requirements of physical input devices (GB/T 18978.400-

(2012, ISO 9241-400..2007, IDT)

ISO 9241-5 Ergonomic requirements for working with visual display terminals (VDTs) Part 5. Workbench layout and location requirements

Seeking [Ergonomic requirements for office work with visual display terminals (VDTs) -Part 5. Worksta-

tion layout and postural requirements]

ISO 9241-125 Human-computer interaction system. Part 125. Guidelines for visual representation of information (Ergonomics of human-system

interaction-Part 125. Guidance on visual presentation of information)

ISO 9241-303 Human-computer interaction system Part 303. Requirements for electronic visual displays (Ergonomics of human-system

interaction-Part 303. Requirements for electronic visual displays)