

ICS 01.080.01

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

GB/T 16900.4-2020

**Rules for the presentation of graphical symbols - Part 4:
Method for testing symbol referent association**

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 Representing Equipment with Graphic 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 of Symbols Representing Rules for Graphic Symbols"

This part is Part 4 of GB/T 16900.

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

This part uses the redrafting method to modify the use of ISO 9186-3..2014 "Graphical Symbol Test Method Part 3.Object Relevance

Test Methods".

Compared with ISO 9186-3..2014, this part has the following structural changes.

--- The full text changes the suspended paragraph to untitled, including Chapter 4, Chapter 5, Chapter 6, Chapter 7.

The technical differences between this part and ISO 9186-3..2014 and the reasons are as follows.

--- With regard to normative quotation documents, this part has been adjusted with technical differences to adapt to my country'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 7.2.7);

* Replace the obsolete ISO 9241-12 with ISO 9241-125 (see 7.2.7).

--- Delete the second paragraph in the "Introduction".

--- 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).

--- Because my country has not yet carried out the proposal work for the standardization of graphic symbols, the graphic symbols in ISO 9186-3..2014 are deleted or modified

No. Standardization proposal related requirements, such as deleting 5.1 and its notes, amending 5.2 "proposer", 7.3, paragraph 1.

--- The education level has been described in terms of our country, so delete the relevant description in paragraph 4 of 7.2.

--- Change ISO 9186-3..2014 test requirements for different countries to test requirements for different regions, such as Chapter 5, 7.3,

7.7.

The following editorial changes have been made in this section.

--- Modify the standard name to "Graphic Symbol Representation Rules Part 4.Object Relevance Test Method".

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 Household Electrical Appliances Research Institute, Hulunbuir Hai

Office of the People's Government of Laer District.

Introduction

Due to the increasing use of non-verbal forms as information expression in buildings and other places, as well as dedicated objects, international trade

The continued growth of the requirements of the graphical symbols used can be understood, so this part of GB/T 16900 is formulated.

The purpose of compiling 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

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, the purpose is to ensure that graphical symbols and objects are one by one

correspond. Any other organization that needs to understand the correlation of graphical symbol objects can also be used.

Graphical symbol representation rules

Part 4.Object correlation test method

1 Scope

This part of GB/T 16900 specifies the method used to test the relevance of objects of graphical symbols.

The user of the graphic symbol meaning (object) conveys information. The object may be a dedicated object, so it is difficult for the public to receive cognitive training

Familiar with these objects.

This section applies to testing the object correlation 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 9241-302 Human-Computer Interactive System Part 302.Terminology for electronic visual displays (Ergonomics of human-

system interaction-Part 302.Terminology for electronic visual displays)

3 Terms and definitions

The terms and definitions defined in GB/T 15565 apply to this document.

4 General

4.1 The graphical symbols of special objects are used to represent facilities, controls, displays, concepts or things. Designed in the working environment and operated by professional users

There are many different objects (graphic symbols) on the device.

4.2 The comprehension test method described in GB/T 16900.2 (i.e. let the subjects see a graphical symbol and then let the subjects speak the graphical symbol

The meaning of) is not suitable for testing graphical symbols representing special objects