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

**GB/T 16901.1-2008**

Replacing GB/T 16901.1-1997

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**Rules for the presentation of graphical symbols for use in  
technical product documentation -- Part 1: Basic rules**

技术文件用图形符号表示规则 第1部分:基本规则

**(English Translation)**

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## Foreword

GB/T 16901 series of standards is one of the national "rules of graphical symbols." The national standards for structure and names are as follows.

a) GB/T 16900 "General Rules of graphical symbols."

b) GB/T 16901 "technical document indicates that the rule of graphical symbols", divided into three sections.

--- Part 1. Basic rules;

--- Part 2. Graphical symbols (including the reference library of graphic symbols) in a computer file format specification and post Change requirements;

--- Part 3. connection point, networks and their encoding.

c) GB/T 16902 "device graphical notation rules" is divided into the following four parts.

--- Part 1. prototype symbol;

--- Part 2. Form and use of arrows;

--- Part 3. Guidelines for the application;

--- Part 4. Monitor screen and the applicable rules of graphical symbols (icons) of.

d) GB/T 16903 "flag graphical notation rules" is divided into two parts.

- Part 1. Public information graphical symbols design principles;
- Part 2. Test procedure.

This part of GB/T 16901 Part 1. The partial modification of the use of ISO 81714-1:1999 "Technical file using graphical symbols Design number - Part 1. Basic rules "(in English). For ease of use, this part of ISO 81714-1:1999 made the following editorial Modifications.

- Some of the statements apply to international standards to apply to our standard formulation;
- Delete international standards preface;
- International standards in Figures 3, 16 and 17 to the table;
- Part of the example of the English replaced by Chinese;
- Without changing the structure of international standards under the premise of the standard text in certain passages to form column item.

This part of ISO 81714-1:1999 as compared to the presence of these technical differences.

- Increase normative references, GB/T 1988, GB/T 15565, GB/T 16900, GB/T 17450, GB/T 14691 and IEC 60027;
- Equivalent to international standards with the GB 3102 (all parts) instead of the original international standard references ISO 31-11;
- With GB/T 4458.4 instead of the original international standard references ISO 129;
- Removed some of the terms in the Normative references GB/T 15565 has been specified.

This Part replaces GB/T 16901.1-1997 "graphical symbols - Graphical symbols for technical documentation rules - Part 1. Basic Regulation then". This section compared with the GB/T 16901.1-1997 main technical changes are as follows.

- Delete Normative references GB 3101, GB 4457.4 and GB/T 15273;
- Increasing the term "benchmark" (edition 3.6) and Symbol Family (edition 3.1);
- The "configuration" to "shape" (1997 version 5.2, this version 6.1);
- The "alignment adjustment" to "graphic symbol orientation" (1997 version 6.2, Chapter 8 edition);
- Remove graphic symbols relevant provisions (Chapter 71 997 Edition) registered.

This part of the National Standardization Technical Committee graphic symbols (SAC/TC59) and focal points.

This section drafted by. China National Institute of Standardization, the National Technical

product documentation Standardization Technical Committee (SAC/TC146), the National Electrical information structures, documentation and graphical symbols Standardization Technical Committee (SAC/TC27).

## 1 Scope

This section GB/T 16901 specifies the basic rules for the design of graphical symbols for technical documentation.

This section applies to graphical symbols for use on technical documents.

## 2 Normative references

The following documents contain provisions which, through GB/T 16901 in this part of the reference in terms of this section. Cited documents dated, its all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encourage each agreement under this section are Prescriptions can use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 1988 Technical information interchange bit coded character set (GB/T 1988-1998, eqv ISO/IEC 646:1991) GB 3102 (all parts), Quantities and units (GB 3102-1993, eqv ISO 31:1992) GB/T 4458.4 Mechanical drawings - Dimensioning GB 13000.1 Information technology - Universal Multiple-Octet Coded Character Set (UCS) - Part 1. Architecture and Basic Multilingual Plane (GB 13000.1-1993, idt ISO/IEC 10646-1:1993) GB/T 14691 Technical drawings font (GB/T 14691-1993, eqv ISO 3098-1. 1974) GB/T 15565 graphics (all parts) Symbol Term GB/T 16900 graphical symbols - General rules (GB/T 16900-1997, eqv ISO/IEC 11714-1:1996) GB/T 17450 Technical drawings Chart (GB/T 17450-1998, idt ISO 128-20:1996) GB/T 19679 IT for Electrotechnical drafting and exchange of information coded character set (GB/T 19679-2005, IEC 61286:2001, IDT) ISO 6428 Technical drawings microfilm copy request ISO/IEC 8859 (all parts) bit single-byte coded graphic character sets ISO/IEC 10367 Information technology - Octet coded graphic character set standard IEC 60027 (all parts), Letter symbols used in electrical technology

## 3 Terms and Definitions

GB/T 15565 and defined by the following terms and definitions apply to this part of the GB/T 16901 of. For convenience, repeating listed below the GB/T 15565 in some of the terms.

Using a graphical representation of features have a specific meaning of the concept of a common set of graphical symbols.

[GB/T 15565.1-2008, the definition 2.5.11] 3.2 Graphic symbols on a connection point to the endpoint of the line.

String of letters, numbers, characters and (or) symbol thereof.