

ICS 17.220

CCS L85



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

GB/T 12116-2012

Replacing GB/T 12117-1989

General specification for electron voltmeter

电子电压表通用规范

Issued on: December 31, 2012

Implemented on: June 1, 2013

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 3.1 Generic term voltmeter

Foreword

This standard rule according to GB/T 1.1-2009 given draft. This standard replaces GB/T 12116-1989 "electronic analog voltmeters general technical conditions", GB/T 12117-1989 "analog electronic electricity Pressure gauge General Test Methods. " This standard and GB/T 12116-1989, GB/T 12117-1989 compared to the main changes are as follows:

- Original GB/T 12116-1989 "electronic analog voltmeters General technical conditions" and GB/T 12117-1989 "analog electronic electricity Pressure Test Methods "combined called" electronic voltmeter universal norms ";
- Increasing the digital display calculation method (see 6.3.1) electronic voltage meter error measurement results;
- The latest measured voltage standing-wave ratio (VSWR) method replaces the original measure voltage standing-wave ratio (VSWR) method (see 6.3.4);
- Increasing the interface functions such terms and test methods (see 5.2.8, 6.3.7);
- GB/T 12116-1989 "electronic analog voltmeters general technical conditions" only provides analog meter measurements indicated this Amendment to the digital display of measurement results, with automatic range switching and having an interface function voltmeter are included. The standard proposed by the Ministry of Industry and Information Technology of the People's Republic of China. This standard by the National Standardization Technical Committee Electronic Measuring Instruments (SAC/TC153) centralized. This standard was drafted. Chengdu Qianfeng Electronics Instrument Factory. The main drafters of this standard. Feng Wensheng Chen Lu since Linhuai Xi. This standard superseded standard previously issued as follows:
- GB/T 12116-1989;
- GB/T 12117-1989. General specification for electronic voltmeter

1 Scope

GB/T 12116-2012 is the Chinese national standard on general specification for electron voltmeter, in the field of metrology and measurement. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2012 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 June 2013.

Classification: ICS 17.220, CCS L85. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the electronic voltmeter (hereinafter referred to as voltmeter) terms, product classifications, requirements, test methods, inspection rules, marks, packages Loading, transportation and storage.

3.1.1 This standard applies to the definition of the voltmeter, including those supporting the application of voltage meter following accessories.

--- Voltmeter connected in series resistors, inductors or capacitors;

--- Used to calibrate voltmeters related accessories. The standards also apply to the sensor or transducer other electricity or electricity into a voltage value, and measuring the voltage values To measure electricity or other power equipment. This standard as a product design, identification, production, use, testing technical basis, but also the development of product standards based on the voltmeter. This standard does not apply to phase-sensitive voltmeter. For a measuring resistance, voltage, current, capacitance, and other functions of the Meter, this standard applies only to voltage component.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 191 Packing Pictorial marking

GB/T 3047.6 desktop chassis electronics Series of basic dimensions

GB/T 6587-2012 General specification for electronic measuring instruments

GB/T 11463-1989 electronic measuring instrument reliability test Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Generic term voltmeter

3.1.1 Electronic voltmeter electronvoltmeter Electronic voltmeter means for measuring DC and AC voltage (either or both), and analog meter or a digital display of measurement results Electronic measuring instruments.

3.1.2 Accessory attachment Voltmeter to expand the performance characteristics for the purpose of permanent or non-permanent combination voltmeter with a circuit element or device (such as resistors , Capacitors, filters and coaxial devices, etc.).