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

GB/T 2900.89-2012

**Electrotechnical terminology -- Electrical and electronic
measurements and measuring instruments -- Part 2: General
terms relating to electrical measurements**

电工术语 电工电子测量和仪器仪表 第2部分：电测量的通用术语

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and definitions
3.1 Basic terms
3.2 Meter class
3.3 Annex
3.4 Components
3.5 Physical Characteristics
3.6 Electrical characteristics
3.7 Performance
Chinese index

Foreword

Rules in this section in accordance with GB/T 1.1-2009 given draft.

This part is Part 89 GB/T 2900's.

This section identical with IEC 60050 (300-312). "International Electrotechnical Vocabulary Part 312 for electric and electronic measurements and instrumentation 2001 Score. electric generic term "measurement.

This section, the term item number and IEC 60050 (300-312).2001 consistent.

This part of the current national standard GB/T 2900.73-2008 "Electrotechnical terminology grounding and protection against electric shock", GB/T 2900.13-2008 "Electrotechnical terminology credibility and quality" made possible coordination.

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 2900.73-2008 Electrotechnical terminology grounded and electric shock protection (IEC 60050 (195).1998, MOD) this part of the National Technical Committee of Standardization Electrotechnical terminology and centralized (SAC/TC232).

This section is drafted. Mechanical Engineering Research Institute, the Harbin Electrical Instrument, China Electronics Standardization Institute, China Institute of Metrology Study hospital.

1 Scope

This part of the standard specifies general terms and definitions used in electric and electronic measuring instruments and electrical measurements.

This section applies to the technical field of electric and electronic measurements and instrumentation related.

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 2900.13-2008 Electrotechnical terminology credibility and quality of service (IEC 60050 (191).1990.Amend.1.1999 AndAmend.2.2002, IDT) IEC 60050-195:1998 International Electrotechnical Vocabulary - Part 195. Earthing and protection against electric shock (International electrotechnicalvocabulary-Part 195. Earthingandprotectionagainstelectricshock) ISO , IEC etal., 1993 international measurement terms (VIM) (Internationalvocabularyofbasicandgeneralterms inmetrology (VIM))

3.1 Basic terms

312-01-01

Current circuit Measuring instruments circuit wherein the current is equal or proportional to the current access measuring instrumentation circuits.

Note: The current can be.

- Directly involved in the measured current;
- Provided by the current transformer is proportional to the applied electric current;
- From an external shunt.

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Voltage circuit Measuring instruments circuit, a voltage measuring circuit connected instruments applied thereto.

Note: This voltage can be.

- Direct voltage to be measured;
- Provided by an external transformer or voltage divider ratio;
- Via an external series resistor or impedance voltage obtained by dividing.

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Common mode voltage it exists between each input terminal and the reference point of the respective portions of the input voltage or the amplitude and phase of the same polarity.

Note: The reference point may be the end of the chassis, a measure to end or inaccessible points.

GB/T 2900.89-2012/IEC 60050 (300-312).2001