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

GB/T 32201-2015

Gas meters

气体流量计

(English Translation)

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Foreword

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

This standard uses redrafted law revision adopts the International Organization of Legal Metrology (OIML) International Recommendation OIMLR137-1 "Gas flow meter." this standard OIMLR137-1 R137-1

--- Remove the international recommendations in the "first part of the metrology and technical requirements" and "the second part of the measurement control and performance testing." title;

--- After the international recommendations Chapter 1, "Preface" and Chapter 2, "Scope" is incorporated to streamline the present standard Chapter 1, "Scope" content;

--- Increased Chapter 2, "Normative references", lists the other documents referenced in normative standards;

--- The only international recommendations Appendix Part 1 I adapted this standard in Appendix A, the international recommendations Part 2 Appendix A to Appendix E of this standard extended arrangement Appendices B through F.

This standard made the following editorial changes.

--- Traffic sign with "q" instead of "Q", the representative of the instantaneous flow rate;

--- With "°C" indicates the temperature range of the unit instead of "K";

--- On paper made a number of segments suspension process, and modified non-compliance numbers.

The standard proposed by China Machinery Industry Federation.

Control and automation Standardization Technical Committee (SAC/TC124) is under the jurisdiction of this standard is measured by the country's industrial processes.

1 Scope

This standard specifies the gas meter (hereinafter referred to as meter) terms and definitions, units of measurement, requirements, technical requirements, marking, Operating Instructions, seal, applicability hole to take pressure, measurement control, type approval, initial verification and subsequent verification.

This standard applies to the measurement technique based on any or works for a gaseous fuel measured by the working conditions or other gases Volume or mass flow meters, also applies to additional electronic devices meter, built-correcting device, built-in temperature compensation device and possibly other Additional devices.

This standard does not apply to liquid gas measurement, multiphase gas, steam and compressed flow meter measuring gas (CNG) filling machine used Compressed natural gas meter.

For gas composed of several units as a standalone product or component meter conversion means, means for determining a high calorific value and Flow measurement system requirements, see OIMLR140.

2 Normative references

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

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Cold (GB/T 2423.1-2008, IEC 60068-2-1:2007, IDT) GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. Dry heat (GB/T 2423.2-2008, IEC 60068-2-2:2007, IDT) GB/T 2423.3 Environmental testing for electric and electronic products Part 2. Test methods - Test Cab. Damp heat test (GB/T 2423.3-2006, IEC 60068-2-78:2001, IDT) GB/T 2423.4 Environmental testing for electric and electronic products Part 2. Test methods - Test Db. Damp heat (12h 12h cycle Ring) (GB/T 2423.4-2008, IEC 60068-2-30:2005, IDT) GB/T 2423.7 Environmental testing for electric and electronic products Part 2. Test Ec and guidance. Drop and topple (mainly for equipment - type specimens) (GB/T 2423.7-1995, IEC 60068-2-31. 1982, IDT) GB/T 2423.43 Environmental testing for electric and electronic products - Part 2. vibration, impact

and similar dynamic tests like Test Method Installation goods (GB/T 2423.43-2008, IEC 60068-2-47:2005, IDT) GB/T 2423.56 Environmental testing for electric and electronic products Part 2. Test methods - Test Fh. Broadband random vibration (digital control Ltd.) and guidance (GB/T 2423.56-2006, IEC 60068-2-64:1993, IDT) GB/T 17214.2 industrial process measurement and control equipment operating conditions - Part 2. Power (GB/T 17214.2-2005, IEC 60654-2. 1979, IDT) GB/T 17626.2 Electromagnetic compatibility Testing and measurement techniques - Electrostatic discharge immunity test (GB/T 17626.2-2006, IEC 61000-4-2:2001, IDT) GB/T 17626.3 electromagnetic compatibility test and measurement technology RFEMS test (GB/T 17626.3-2006, IEC 61000-4-3:2002, IDT) GB/T 17626.4 Electromagnetic compatibility Testing and measurement techniques - Electrical fast transient burst immunity test (GB/T 17626.4-2008, IEC 61000-4-4:2004, IDT)