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

GB/T 13969-2008

Replacing GB/T 13969-1992

Displacement type level instruments

浮筒式液位仪表

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Foreword

This standard is revised and replaces GB/T 13969-1992 "float type level meter." The main difference between this standard and GB/T 13969-1992 are as follows:

- Update the normative references;
- 4.2.1 "normal working conditions", according to the provisions of GB/T 17214.1-1998 modified the normal operating temperature range grade;
- 5.8 power change," according to the provisions of GB/T 18271.3-2000 modifies the frequency ac power and dc power Limit voltage variation;
- 5.9 Power disruption", according to the provisions of GB/T 18271.3-2000 modified the AC power supply interruption test instrument Continued representation of time;
- 6.1.4.2 gas supply," according to the provisions of GB/T 18271.3-2000 will supply pressure tolerance changed from $\pm 1\%$ to $\pm 3\%$; According to the provisions of GB/T 17214.2-2005 dust particles increased content limit;
- Increased 6.25, complements the provisions of the instrument explosion-proof performance test methods;
- Presentation of some of the terms were appropriate changes;
- In accordance with the provisions of GB/T 1.1-2000 were editorial changes. The standard proposed by China Machinery Industry Federation. This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized. This standard is drafted by: Shanghai Institute of Industrial Automation Instrumentation. Participated in the drafting of this standard. Shanghai Automation Instrumentation System Inspection and Testing Institute, Shanghai Science and Technology Electronics Co., where appropriate, Shanghai Xing Shen Instrument Co., Ltd., Dandong-Bo Electric (Group) Co., Ltd., Shanghai Fengcheng new Swiss Automation Instrumentation Co., Ltd., Shanghai East letter Instruments Ltd., Zhejiang Instrument Co., Ltd. UN General Assembly. The main drafters of this standard. Cai Wen-chi, Li Minghua. Participate drafters of this standard. Wang Shengbin, Chen Yao, Li Zujun, Lin Qingping,

Yujian Peng, Zhang Zhonghua, Lo Ting. This standard replaces the standards previously issued as follows:

--- GB/T 13969-1992. Float type level meter

1 Scope

GB/T 13969-2008 is the Chinese national standard on displacement type level instruments, in the field of manufacturing engineering. 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 28 July 2008 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 February 2009. Classification: ICS 25.040.40, CCS N12. 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 float type level meter (hereinafter referred to as instrumentation) product classification, technical requirements, test methods, inspection rules, marks, Packaging and storage. This standard applies to continuous transmission, pneumatic and electric meter indication. This standard also applies to the transmission control function with the pneumatic and electric meter, which indicates that part of its control function should meet the relevant standards Provisions.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2878 Hydraulic Components threaded port type and size (GB/T 2878-1993, neq ISO 6149. 1980)

GB 3836.1 Electrical apparatus for explosive gas atmospheres - Part 1. General requirements (GB 3836.1-2000, eqv IEC 60079-0. 1998)

GB 3836.2 Electrical apparatus for explosive gas atmospheres - Part 2. flameproof "d" (GB 3836.2-2000, eqv IEC 60079-1. 1990)

GB 3836.4 explosive gas environment with electrical equipment - Part 4. Intrinsic safety "i" (GB 3836.4-2000, eqv IEC 60079- 11.1993)

GB/T 15464 instrumentation packaging technology

GB/T 17214.1-1998 industrial process measurement and control equipment - Operating conditions - Part 1. Climatic conditions (idt IEC 60654- 1.1993)

JB/T 9329-1999 instrumentation transportation, transportation, storage and basic environmental conditions and test methods

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 An apparatus for measuring the liquid level detecting device, it is immersed in the liquid by the buoyancy of their depth linear.

3.2 In pontoon element to detect, measure the liquid or liquid - liquid interface device position.

4 Products

4.1.1 Instrumentation by the power source is divided into.