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

GB/T 13639-2008

Replacing GB/T 13639-1992

**Digital indicators with analogue input for use in
industrial-process measurement and control systems**

工业过程测量和控制系统用模拟输入数字式指示仪

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Foreword

This standard replaces GB/T 13639-1992 "industrial process measurement and control systems using analog input digital indicator." This standard and GB/T 13639-1992 main differences are as follows:

- Update and add normative references;
- Change the title of Chapter 3 "Terms and Definitions" and add the introductory phrase;
- Test methods cited GB/T 18271.2-2000 and GB/T 18271.3-2000 the corresponding section;
- Adjusted Chapter 5 sections of the order;
- 5.2 change the title, "and affect the amount of the relevant technical specifications";
- 5.6.2 "dielectric strength", the original standard table
- 4 Rated voltage of "60 to < 130 and 130 to < 250 'merger "60 to < 250 'of a block;
- 5.7.3 "Continuous shock" changes to "transport collision";
- Test methods cited GB/T 18271.2-2000 and GB/T 18271.3-2000 the corresponding section;
- 6.2.3 existing sections
- 6.2.5 and a suspension now be numbered;
- Updated Table B. 2 listed version of the standard;
- Remove Appendix C, test schematic electrical interference can be found in the normative references. Appendix A of this standard is a normative appendix, Appendix B is an informative annex. The standard proposed by China Machinery Industry Federation. The standard measurement and control of industrial processes by the National Standardization Technical Committee at its first Technical Committee (SAC/TC124/SC1) 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. The main drafters of this standard. Li Minghua, Tsai Wen-chi, Lo Ting. The standard standard replaces the previous editions.

1 Scope

GB/T 13639-2008 is the Chinese national standard on digital indicators with analogue input

for use in industrial-process measurement and control systems, 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 30 June 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 January 2009. Classification: ICS 25.040.40, CCS N14. 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 test methods for industrial process measurement and control systems with the main performance parameters of the analog input digital indicator, requirements, And assessment rules. This standard applies to industrial processes analog input measurement and control systems with a digital indicator (hereinafter referred to as indicator). The other with analog - digital converter digital instrument cluster indicating portion can also refer to use. Indicator can be used with the following sensors, transmitters used in conjunction with or accept the following signals.

- a) a thermocouple or a radiation sensing device;
- b) heat resistance;
- c) a Hall sensor or pressure transmitter;
- d) resistance Remote pressure gauge;
- e) standardized analog DC signal or other analog DC signal;
- f) Other sensors produce a resistance change. This standard applies only under normal operating conditions using a test indicator under the indicator, special working conditions of the additional requirements, Not within the standard range.

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 2900.56-2008 Electrotechnical terminology control technology (IEC 60050-351.2006, IDT)

GB/T 3369.1 process control systems with analog signals - Part 1. DC current signal (GB/T

3369.1-2008, IEC 60381-1. 1982, IDT)

GB/T 3369.2 process control systems - analog signals - Part 2. DC voltage signal (GB/T 3369.2-2008, IEC 60381-2. 1978, IDT)

GB/T 15464 instrumentation packaging technology

GB/T 17212-1998 industrial process measurement and control - Terms and definitions (idt IEC 60902. 1987)

GB/T 17614.1-2008 industrial process control systems use transmitters - Part 1. Methods of evaluating performance (IEC 60770-1. 1999, IDT)

GB/T 18271.1-2000 Process measurement and control devices - General methods and procedures for evaluating performance - Part 1. General (Idt IEC 61298-1.1995)

GB/T 18271.2-2000 Process measurement and control devices - General methods and procedures for evaluating performance - Part 2. under reference conditions Test (idt IEC 61298-2.1995)

GB/T 18271.3-2000 Process measurement and control devices - General methods and procedures for evaluating performance - Part 3. effects of influence quantities Test (idt IEC 61298-3.1998)

GB/T 22112-2008 industrial automation, instrumentation and arrangement of terminals logo