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

GB 30439.10-2014

**Safety requirements for industrial automation products-Part 10:
Safety requirements for recording instrument**

工业自动化产品安全要求 第10部分: 记录仪表的安全要求

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Foreword

All technical content in this Part of GB 30439 is mandatory. GB 30439 "Industrial Automation product safety requirements" is divided into 18 sections as follows:

- Part 1. General;
- Part 2. pressure/differential pressure transmitter safety requirements;
- Part 3. Temperature Transmitter safety requirements;
- Part 4. Safety requirements for the control valve;
- Part 5. flowmeter safety requirements;
- Part 6. solenoid valve safety requirements;
- Part 7. loop controller safety requirements;
- Part 8. Safety requirements for electric actuators;
- Part 9. Digital display instrument safety requirements;
- Part 10. recording instrument safety requirements;
- Part 11. Programmable Controller safety requirements;
- Part 12. Radar level meter and ultrasonic level meter safety requirements;

--- Part 13. magnetostrictive level gauge safety requirements;

1 Scope

GB 30439.10-2014 is the Chinese national standard on safety requirements for industrial automation products-part 10: safety requirements for recording instrument, in the field of manufacturing engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 24 July 2014 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 2015. Classification: ICS 25.040.01, CCS N10. 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.

GB This section 30439 specifies the recording instrument of anti-shock, anti-mechanical hazards, mechanical shock and impact resistance to prevent the spread of flame, set Security content prepared by heat-resistant and temperature limits. This section does not include security features and device-independent, performance or other characteristics, the effectiveness of transport packaging, electromagnetic compatibility (EMC) to Requirements, functional safety, environmental protection measures for the explosion, maintenance (repair), maintenance (repair) personnel protection. If you are recording instruments used in other environments (such as medical, food, nuclear power, ships, etc.), then the recording instruments must also meet the applicable phase Should the special environmental requirements, standards and installation guidelines. This section applies to industrial manufacturing or processing, automatic acquisition and recording process signal recording instruments, which does not exceed the rated voltage Over 300V, power connections for the wires. This section also applies to a predetermined and automation products for use with accessories (such as instrument inspection Setting means).

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 3098.1-2010 Mechanical properties of fasteners Bolts, screws and studs (ISO 898-1.2009, MOD)

GB/T 3098.3-2000 Mechanical properties of fasteners set screws (idt

ISO 898-5.1998) Logo GB/T basic methods and safety rules of equipment terminals and

conductor terminal HMI 4026-2010 flag identified (IEC 60445.2006, IDT)

GB/T 4205-2010 basic safety rules and operating rules of the man-machine interface, marking and identification (IEC 60447.2004, IDT)

GB 4208-2008 housing protection (IP Code) (IEC 60529.2001, IDT)

GB 4793.1-2007 measurement, control and laboratory safety requirements for electrical equipment Part 1. General requirements (IEC 61010-1. 2001, IDT)

GB/T 5465.2-2008 Graphical symbols for electrical equipment - Part 2. Graphical symbols (IEC 60417DB.2007, IDT)

GB/T 7354-2003 partial discharge measurements (IEC 60270.2000, IDT)

GB 8898-2001 Audio, video and similar electronic apparatus - Safety requirements (eqv IEC 60065.1998)

GB/T 11020-2005 solid non-metallic materials exposed to flame flammability test method list of source (IEC 60707. 1999, IDT)

GB/T 11918-2001 industrial plug and socket couplers - Part 1. General requirements (idt IEC 60309-1.1999)

GB/T 11919-2001 industrial plug and socket coupling - Part 2. With pin and sleeve size interchangeable electrical accessories Requirements (idt IEC 60309-2.1999)

GB 14048.1-2006 Low-voltage switchgear and control equipment Part 1. General (IEC 60947-1.2001, MOD)

3 Terms and Definitions

GB 4793.1 define the following terms and definitions apply to this document. For ease of use, repeat the following list of GB 4793.1 Some terms and definitions. Unless otherwise specified, "voltage" value and "current" refers to the value of RMS AC, DC, or synthetic voltage or current. Category

3.1 Equipment and devices

3.1.1 Stationary equipment fixedequipment Fixed to the support member or an additional fixture at a specific location. [GB 4793.1-2007, the definition 3.1.1]

3.1.2 PERMANENTLY CONNECTED EQUIPMENT permanentlyconnectedequipment Scheduled to use screw terminals or other reliable methods and building installation wiring connected device. [GB 4793.1-2007, the definition 3.1.2]

3.2 Parts and Accessories

3.2.1 Terminal terminal A component of the apparatus (device) connected to the outer