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

GB/T 11828.5-2011

Instruments for stage measurement - Part 5: Electronic gauge

水位测量仪器 第5部分：电子水尺

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Foreword

GB/T 11828 "water level measuring instrument" is divided into seven parts.

--- Part 1. float-type water level gauge;

--- Part 2. Pressurized water level gauge;

--- Part 3. groundwater level meter;

--- Part 4. Ultrasonic water level gauge;

--- Part 5. Electronic water gauge;

--- Part 6. Remote measuring water level;

--- Part 7. Level stylus. This section GB/T 11828 Part 5. This section drafted in accordance with GB/T 1.1-2009 given rules. This section proposed by the People's Republic of China Ministry of Water Resources. This part of the National Technical Committee of Standardization Technical Committee hydrological hydrological instruments (SAC/TC199/SC1) centralized. This in part by the Ministry of Water Resources hydrological instruments and geotechnical engineering Instrument Quality Supervision and Testing Center, Ningbo Beilun Cup China Hydraulic Equipment Co., Secretary TAIYUAN Tiancheng electronics and information technology company responsible for drafting, Hydrology and Water Nanjing Hydraulic Research Institute of Automation, the national industrial production License Office hydrological instruments and geotechnical engineering Instrument Examination Department participated in the drafting. The main drafters of this section. ZhangYuCheng, Ne Min Feng, Li Zhigang, Wei Lin, Shi Minghua. Level Measuring Instruments Part 5. Electronic water gauge

1 Scope

GB/T 11828.5-2011 is the Chinese national standard on instruments for stage measurement - part 5: electronic gauge, in the field of natural and applied sciences. 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 December 2011 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 June 2012. Classification: ICS 07.060, CCS N93. 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 section GB/T 11828 specifies the terms and definitions of electronic water gauge, product structures, technical requirements, test methods, inspection regulations Then, signs and instructions, packaging, transportation and storage. This section applies to the measurement of electronic water gauge rivers, lakes, reservoirs, channels and other water bodies of water.

2 Normative references

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

GB/T 9359-2001 hydrological instruments environmental testing conditions and methods

GB/T 9969 General Instructions industrial products

GB/T 17626.5-1999 Electromagnetic compatibility - Testing and measurement techniques - Surge (impact) immunity test

GB/T 17626.8-2006 Electromagnetic compatibility - Testing and measurement techniques - Power frequency magnetic field immunity test

GB/T 18185 requirements for reliability for hydrologic instruments

GB/T 18522.2 hydrologic instruments - Part 2. Reference Operating Conditions

GB/T 19677 Terms and symbols for hydrological Instruments

GB/T 19704 and Hydrological Instruments show record

GB/T 19705 hydrological instruments and signal interfaces

3 Terms and Definitions

GB/T 19677 and defined by the following terms and definitions apply to this document.

3.1 Electronic water gauge electronicgauge Simulate the traditional manual observation water gauge, water gauge measuring body in the water level amplitude range, the use of electronic technology, automatic water level measurement and water Level signal is transmitted to the measuring instrument accompanying display recording device.

3.2 Contact electronic water gauge point-contactgauge Electronic water gauge probe contacts the surface of the water surface of the foot position (3.1).

3.3 Capacitive electronic water gauge capacitivegauge By measuring the capacitance detection principle electronic water gauge (3.1) water surface position.

3.4 Static magnetism grid electronic water gauge magnetostaticgridgauge Using static magnetism grid absolute encoder technology to detect water electronic water gauge (3.1) surface position.