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

GB/T 18271.4-2017

**Process measurement and control devices -- General methods
and procedures for evaluating performance -- Part 4: Evaluation
report content**

过程测量和控制装置 通用性能评定方法和程序 第4部分：评定报告的内容

(English Translation)

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Foreword

GB/T 18271 "Process measurement and control device common performance assessment methods and procedures" is currently planned to release the following part.

- Part 1. General;
- Part 2. Tests under reference conditions;
- Part 3. Tests affecting the impact of quantity;
- Part 4. Assessing the contents of the report.

This part is part 4 of GB/T 18271.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part of the replacement GB/T 18271.4-2000 "Process measurement and control devices General performance assessment methods and procedures Part 4.

Assessment report content ", compared with GB/T 18271.4-2000, the main technical changes are as follows.

- modified normative reference documents, quoted IEC 60050 series of standards, no longer cited GB/T 17212 (idt IEC 60902) (See Chapter 2; Chapter 2 of the 2000 edition);
- Increased reporting should indicate the requirements of the accredited sponsor and any information relating to the use of proprietary information (see 5.1);
- modified the wording of the second paragraph of the preamble of the report (see chapter 7; chapter 7 of the 2000 edition);
- Added "if any changes or additions to the definition should be stated" (see 14.2).

This part uses the translation method equivalent to the use of IEC 61298-4.:2008 "Process measurement and control devices General performance assessment methods and

procedures Part 4. Assessing the contents of the report ".

In this part of the normative reference to the international documents have a consistent correspondence between the following documents.

GB/T 2900.56-2008 Electrical terminology control technology (IEC 60050-351.:2006, IDT)
GB/T 2900.77-2008 Electrical terminology - Electrical and electronic measurement and instrumentation - Part 1. Generic terms for measurement [IEC 60050 (300-311)..2001, IDT]
Electrotechnical terminology - Electrical and electronic measurement and instrumentation - Part 3. Electrical measuring instruments - GB/T 2900.79-2008.

Type [IEC 60050 (300-313)..2001, IDT] GB/T 2900.89-2012 Electrical terminology - Electrical and electronic measurement and instrumentation - Part 2. Generic terms for electrical measurement [IEC 60050 (300-312)..2001, IDT] GB/T 2900.90-2012
Electrotechnical terminology - Electrical and electronic measurement and instrumentation - Part 4. Special procedures for various types of instruments [IEC 60050 (300-314)..2001, IDT] this part is made by the China Machinery Industry Federation.

This part is headed by the National Industrial Process Measurement Control and Automation Standardization Technical Committee (SAC/TC124).

This part of the drafting unit. Shanghai Industrial Automation Instrumentation Research Institute, Chongqing Industrial Automation Instrumentation Institute, Southwest University, Shanghai Automation Instrument Co., Ltd.

1 Scope

GB/T 18271 specifies the functional and performance characteristics of the process measurement and control device and the preparation of test reports Law and procedure. These tests apply to any specific input and output variables, and the input and output variables have a specific relationship between (transfer letter Number) of process measurement and control devices, including analog devices and digital devices. For the need to do special test items of the device, should follow GB/T 18271 and in combination with such special test items have a specific product standards for testing.

This part of GB/T 18271 specifies the assessment and testing of process measurement and control devices and the written reports of the results obtained content.

This section specifies the main items contained in the assessment report, but does not specify the format of the presentation of the report (by writing and issuing Report the laboratory to decide).

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the

latest edition (including all modifications) applies to this document.

IEC 60050 (all parts) International Electrotechnical Vocabulary (IEV)
[International Electrotechnical Vocabulary (IEV)] IEC 60050-300 International
Electrotechnical Vocabulary (IEV) Electrical and Electronic Measurement and Measuring
Instruments (from 311, 312, 313 and 314) [International Electrotechnical Vocabulary (IEV)
-Electrical and electronic measurements and measuring instruments (composed of Part
311, 312, 313 and 314)] IEC 60050-351 International Electrotechnical Terms (IEV) - Part 351.
Control Techniques [International Electrotechnical Vocabulary (IEV) -Part 351.
Control technology]

3 Overview General

3.1

The scope of the report A report should cover only one assessment on a test facility, and if another assessment is made on the same device, A separate numbered report is issued separately.

3.2 Binding of the report

Each report are applied thick cover binding, so that the inner page is not scattered. The specific binding method for the pages of the test report does not it is determined by the laboratory that issued the test report.

3.3 Pages

Each page of the report is numbered consecutively. Usually the first page of the body of the report is compiled on page 1, followed by the page