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

GB/T 3369-1989

Replacing GB/T 3369-1989

**Analogue signals for process control systems -- Part 1: Direct
current signals
(English Translation)**

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Foreword

GB/T 3369 "process control systems with an analog signal" is divided into two parts.

--- Part 1. DC current signal;

--- Part 2. DC voltage signal.

This section GB/T 13369 Part of.

This section identical with IEC 60381-1. 1982 "process control systems with analog signals - Part 1. DC current signal" (English Version).

According to GB/T 1.1-2000 "Standardization Guide Part 1. Standard structure and drafting rules" to IEC 60381-1.

1982 includes the following editorial changes.

a) "This standard" is replaced with "this Part";

b) Remove the IEC 60381-1. 1982 Foreword;

c) Where "IEC 60381" where to "GB/T 3369";

"," D) with a decimal point instead of a comma as the decimal point, "";

This Part replaces GB/T 3369-1989 "Industrial Automation Instrumentation Analogue direct current signals." this section compared with GB/T 3369-1989, the main changes are as follows.

--- Standard name from the "Industrial Automation Instrumentation Analogue direct current signals" to "process control systems with analog signals - Part 1.

DC current signal ";

--- "This standard" is replaced with "this Part";

--- Scope. GB/T 3369-1989 reference using IEC 60381-1. 1982, the scope of industrial automation instruments; this Standard is identical with IEC 60381-1. 1982, the scope of measurement and control systems for industrial processes (GB/T 3369-1989 Part 1 of this chapter); Chapter 1;

--- The range "Industrial Automation Instrumentation" to "element" (GB/T 3369-1989 Chapter 1; Chapter 1 of this Part);

--- Terms and Definitions section increases the ripple content ripplecontentofthe "Power powersupply" and "supply voltage powersupplyvoltage "terms and definitions (in this section 2.9, 2.10);

--- Technical requirements for part of the increase of the "power" requirement (in this section 3.7).

This part is proposed by China Machinery Industry Federation.

This part of the measurement and control of Standardization Technical Committee II by the National Technical Committee under the jurisdiction of the industrial process.

This section is responsible for drafting unit. Southwest University, China Silian Instrument Group.

Participated in the drafting of this section. Machinery Industrial Instrumentation Technology and Economy Institute, Beijing Institute of Machinery Industry Automation.

1 Scope

This section provides an analog direct current signal for industrial process measurement and control systems to transfer information between system components used.

This section does not apply to signal entirely within an element used.

2 Terms and definitions

The following terms and definitions apply to this section.

The measurement value, the control variable, controlled variable and the reference variable conversion, processing or transmission of functional units and integrated combination Means.

In the industrial process measurement and control systems for the transmission of information, within its scope in a continuous manner varying direct current signal.

All values \u200b\u200bdefined at a defined within.

Range minimum value specified.

Note: The lower limit may be zero or a finite value, if it is zero, known as the "true zero", if it is finite, called "living zero." 2.5 Maximum range.

All receiving element and the impedance of the cable connected to the sum of the signal within the circuit.

AC component peak - signal and analog DC current range of the ratio.

A plurality of "signal" circuit may have a common line of a direct electrical connection, this "signal" circuit common line may be grounded, may be grounded.

By providing the required DC power supply, so that the system element is able to generate direct current signal.

GB/T 3369.1-2008/IEC 60381-1. 1982