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

GB/T 777-2008

Replacing GB/T 777-1985

**Analogue pneumatic signal for industrial-process measurement
and control instruments**

工业自动化仪表用模拟气动信号

(English Translation)

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Foreword

This standard is identical with IEC 60382:1991 "process control systems using analog pneumatic signal" (in English).

For ease of use, according to the relevant provisions of the standard GB/T 1.1-2000 and GB/T 20000.2-2001 made the following editorial modify.

--- Deleted international standards foreword;

--- "This International Standard" be replaced by "this standard";

--- The IEC 60382:1991 in 1.1 "Scope and purpose" provision of this standard in Chapter 1, "scope", 1.2 "Normative text Member "Program of Chapter 2; the IEC 60382:1991 Chapter 2," Definitions "of this standard series Chapter 3," Terms and definitions ", section 3 Chapter compiled this standard Chapter 4, "a predetermined value." Table 1 Table note placed in the prescribed form.

This standard replaces GB/T 777-1985 "Industrial Automation Instrumentation analog pneumatic signal." With GB/T 777-1985 compared to this Amendments made by the major changes are.

The overall layout and structure --- the standard by GB/T 1.1-2000 been modified to increase the foreword.

--- Increase in Chapter 1, "scope" and Chapter 2, "normative references."

--- Original standard Chapter 1, "Definitions" adapted for Chapter 3, "Terms and Definitions" and adds "pneumatic information transmission system", "Current -Pressure Converter ", " air pressure "and other terms and definitions. Modify the term" industrial process measurement and control system of the system element Member ", " analog pneumatic signal ", " analog pneumatic signal "and" lower limit ", " limit "is defined.

--- Original standard of Chapter 2, "analog pneumatic signal" and adapted for the 4.1 "predetermined value" and added comments.

--- Added 4.2 "supply pressure."

--- Modify the comment "analog pneumatic signal" and a table.

The standard proposed by China Machinery Industry Federation.

The standard measurement and control Standardization Technical Committee first points by the National Technical Committee of industrial processes.

Drafting of this standard. Shanghai Industrial Automation Instrument Research Institute, Shanghai Automation Instrumentation System Inspection and Testing Institute.

1 Scope

This standard specifies the industrial process measurement and control systems for inter-system component analog pneumatic signal transmission of information.

This standard applies to.

--- Pneumatic controller;

--- Pneumatic and pneumatic transmitter information transmission system.

This standard does not apply only for analog pneumatic signal system components for internal use.

This standard is designed to establish.

--- Standard operating pressure range pneumatic information transmission system;

--- Pneumatic controllers and transmitters, pneumatic information transmission system, current - standard air pressure transducer and the like work pressure Force (the specified limit).

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 3100-1993 and Its Application to the International System of Units (eqv ISO 1000:1992)
GB/T 17214.2-2005 working conditions in industrial process measurement and control devices - Part 2. Power (IEC 60654-2.

1979, IDT)

3 Terms and Definitions

The following terms and definitions apply to this standard.

The control variable, the controlled variables and the measured value of the reference variable conversion, processing and transmission of functional units.

Note: The control valve actuators and current - pressure transducer, valve positioner or boost following the drive combination is receiving a standard pneumatic signal transmission or standard System components reference current signal transmission.

The input information into a corresponding pressure signal conversion means, connecting pipes and pressure signals in response to input information and generates relatively Receiving element corresponding to the output information transmission system formed.

Receiving the analog electrical signal and converts it into a corresponding pressure device.

For industrial process measurement and control systems to transmit information within its range continuously variable pneumatic signal.

GB/T 777-2008/IEC 60382:1991