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JJF

NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1789-2019

Program of Pattern Evaluation of Pressure Transmitters

压力变送器型式评价大纲

(English Translation)

Implemented on: March 31, 2020

Issued by: State Administration for Market Regulation

Preview: page 1 of 5 shown, 43 in the full document. Complete English PDF, instant download:
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Table of Contents

Introduction (III)
1 Scope (1)
2 References (1)
3 Terms and definitions (1)
3.1 Consistency (1)
3.2 Independent consistency (1)
3.3 End-group consistency (1)
3.4 Zero-base consistency (1)
3.5 Residual change (2)
3.6 Step response time (2)
3.7 Dead zone (2)
4 Overview (2)
5 Legal management requirements (2)
5.1 Unit of measurement (2)
5.2 Accuracy class (2)
5.3 Marks and logos (2)
5.4 External structure design requirements (3)
5.5 Provide technical documents and test prototypes for review (3)
6 Measurement requirements (3)
6.1 Indication error (3)
6.2 Return difference (3)
6.3 Repeatability (3)
6.4 End-group consistency (3)
6.5 Dead zone (3)
7 General technical requirements (4)
7.1 Normal working conditions (4)
7.2 Reference working conditions (4)
7.3 Functional characteristics (5)
7.4 Appearance (5)
7.5 Starting drift (5)
7.6 Long-term drift (5)
7.7 Frequency response (5)

Preview: page 2 of 5 shown, 43 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jjf-1789-2019

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7.8 Step response (5)
7.9 Items related to impact (6)
7.10 Items related to power input and electrical signal output (8)
8 Type Evaluation Project Table (13)
9 Test conditions and methods (15)
9.1 Test conditions (15)
9.2 Test equipment (15)
9.3 Test points (16)
9.4 Indication error (16)
9.5 Return difference (17)
9.6 Repeatability (17)
9.7 End-group consistency (18)
9.8 Dead Zone (18)
9.9 Items related to functional characteristics (19)
9.10 Appearance (21)
9.11 Starting drift (21)
9.12 Long-term drift (21)
9.13 Frequency response (22)
9.14 Step response (22)
9.15 Items related to impact (23)
9.16 Items related to power input and electrical signal output (30)
10 Judgment principles of type evaluation results (37)
Appendix A Original Record Format (38)

10 Judgment principles of type evaluation results (37)

Appendix A Original Record Format (38)

Introduction

JJF 1016 "Guidelines for the Compilation of Outlines of Evaluation of Measuring Instruments", JJF 1059.1-2012 "Measurement Uncertainty Evaluation "Determining and expressing" together constitute the basic series of specifications formulated in this outline.

The requirements and methods of the test items in this outline refer to GB/T 17614.1-2015 "Industrial Process Control System Transmitter Part 1: Performance evaluation method, GB/T 28474.1-2012 "Industrial process measurement and control system" Prepared with pressure/differential pressure transmitter Part 1 General Technical Conditions" and JJG882

Preview: page 3 of 5 shown, 43 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jjf-1789-2019

"Pressure Transmitter". Simultaneously it also refers to GB/T 18271 "General Performance Evaluation Methods and Procedures of Process Measurement and Control Devices", GB/T 17212 "Terms and definitions of industrial process measurement and control", GB/T 17626 "Electromagnetic compatibility test and Measurement Technology", GB/T 2423.2 "Electrical and Electronic Products Environmental Test Part 2: Test Method Test B.

High temperature" and other regulatory documents.

This outline is published for the first time.

Type evaluation outline of pressure transmitter

1 Scope

This outline is applicable to pressure with classification code 12340500 (including positive pressure, negative pressure, differential pressure and absolute pressure) the type evaluation of the transmitter is not suitable for pneumatic transmitters and force (moment) balanced transmitters.

2 Reference documents the outline refers to the following documents.

JJG882 pressure transmitter JJF 1001 General Measurement Terms and Definitions GB/T 2423.2 Environmental Test for Electrical and Electronic Products Part 2: Test Method Test B. High Temperature GB/T 17212 Industrial Process Measurement and Control Terms and Definitions GB/T 17614.1-2015 Industrial Process Control System Transmitter Part 1: Performance Evaluation Method GB/T 17626 EMC test and measurement technology GB/T 18271.2 General performance evaluation methods and procedures for process measurement and control devices Part 2: Reference Test under specific conditions GB/T 18271.3 General performance evaluation methods and procedures for process measurement and control devices. Part 3: Effects Loudness test GB/T 28474.1-2012 Pressure/differential pressure transmitters for industrial process measurement and control systems Part 1 General technical conditions for dated reference documents, only the dated version applies to this specification; for those without date references the latest version (including all amendments) is applicable to this specification.

3 Terms and definitions

3.1 Consistency conformity the degree of agreement between the calibration curve and the specified characteristic curve (straight line, logarithmic curve, parabola, etc.).

[GB/T 17212,P2.2.2.12]

3.2 Independent consistency independentconformity the calibration curve of the transmitter can be adjusted to be close to the specified characteristic curve, so that the maximum deviation is the smallest when it is the same degree.

[GB/T 17212,P2.2.2.13]

Preview: page 4 of 5 shown, 43 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jjf-1789-2019

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3.3 Terminal-based conformity the calibration curve of the transmitter can be adjusted to be close to the specified characteristic curve, so that the range of the two curves of input and output the degree of agreement between the upper limit and the lower limit of the range.

[GB/T 17212,P2.2.2.14]

3.4 Zero-based conformity

Preview: page 5 of 5 shown, 43 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/jjf-1789-2019