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**Program of Pattern Evaluation of Pressure Transducer
(English Translation)**

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Introduction

JJF 1016 "Measuring Instruments type evaluation outline guidelines for the preparation", JJF 1001 "common measurement terms and definitions" JJF 1008 "Pressure measurement terminology and definitions" series together constitute the basic norms of the syllabus revision.

The outline of China's national conditions, in GB/T 18806-2002 "total resistance strain pressure sensor Specifications" and JJG860-1994 base "pressure sensor (static)" on the use of GB/T 15478-1995 "pressure Force sensor performance test method ", GB/T 7665-2005" pressure sensor generic term "in part, into Row developed.

This outline is compared with the GB/T 18806-2002, in addition to editorial changes, but according to JJG860-1994 renumbered Wrote measurement requirements and the insulation resistance of the sensor, zero drift of the technical requirements, rewrite the test device Pressure on the standard requirements; binding GB/T 18806-2002 and JJG860-1994 refinement and streamlining of the test method.

This specification is the first release.

Resistance strain gauge type pressure sensor evaluation outline

1 Scope

This type of evaluation outline is applied (-0.1 ~ 500) MPa resistive strain gauge pressure transducer (static) (in Hereinafter referred to as sensors) pattern evaluation.

2. References

This outline references the following documents.

JJG860-1994 pressure transducer (static) GB/T 2423.5-1995 Environmental testing for electric and electronic products Part 2. Test methods Test Ea.

Attack

GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc.

Vibration (sinusoidal) GB/T 7665-2005 pressure sensor generic term GB/T 15478-1995 pressure sensor performance test method GB/T 17214.3-2000 working conditions in industrial process measurement and control devices - Part 3. Mechanical influences GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test GB/T 18806-2002 total resistance strain pressure sensor specification for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Terms and Definitions 3.1 thermal hysteresis A point on the sensor measurement range, when the temperature is gradually rising and gradually falling two ways to approach and reach when a certain temperature, the difference between the maximum value of the sensor output.

Note: The thermal hysteresis sensor reflects absorption and release of heat output characteristics change.

3.2 thermal zero offset thermalzeroshif Since the zero indication ambient temperature changes caused by offset.

3.3 Thermal sensitivity drift thermalsensitivityshif Sensitivity due to temperature changes caused by drift.

4 Overview

Can feel the pressure sensor is a signal, and in accordance with certain rules the pressure signal into usable output Electrical device or devices can be used to gauge pressure of gases and liquids, differential and absolute pressure.

Working principle of resistance strain pressure sensor is the use of an elastic element, changes in the measured pressure is converted into production