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JJG

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

JJG 860-2015

Replacing JJG 860-1994

**Verification Regulation of Pressure Transducer (Static)
(English Translation)**

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3 Terminology and units of measurement (1)

3.1

The term (1)

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Introduction

JJF1002 "national verification procedures write rules", JJF1001 "common measurement terms and definitions" JJF1008 "Pressure measurement terminology and definitions" series

together constitute the basic norms of the regulations revision.

This procedure combined with China's national conditions, the basis of "pressure sensor (static)" verification procedures in JJG 860-1994 on the use of GB/T 15478-1995 "pressure sensor performance test method", GB/T 18459-2001 "Biography Sensor main static performance index calculation method ", GB/T 18806-2002" total resistance strain gauge pressure sensor Fan ", GB/T 20522-2006" Semiconductor devices Part 14-3.

Semiconductor sensors - Pressure sensor " Part of the contents in the reserve JJG 860-1994 effective content premise of the amendment.

The procedures and JJG 860-1994 "pressure sensor (static)" compared to, in addition to editorial changes, the major change of the following.

- Redefined the pressure sensor accuracy class division;
- Refine the test conditions and test methods;
- Expands the measurement performance pressure sensors and general technical requirements;
- Increasing the test project content;
- Straighten out the order of test items and test methods;
- Increasing the height difference correction calculation in the appendix.

A pressure sensor (static) test procedures

1 Scope

The test procedures for measuring the range (-0.1 ~ 500) MPa (gauge pressure, differential or absolute pressure) Biography Sensors (static) initial verification, use and subsequent verification check.

2. References

This procedure references the following documents.

JJF1008-2008 pressure measurement terminology and definitions GB/T 15478-1995 pressure sensor performance test method GB/T 18459-2001 sensor is mainly static performance index calculation method GB/T 18806-2002 total resistance strain pressure sensor specification GB/T 20522-2006 Semiconductor devices Part 14-3. Semiconductor sensors - Pressure Sensor for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 terminology and units of measurement

3.1 Terms

3.1.1 Static pressure in the field of research, does not change with time or change over time and slowly varying pressure. [JJF1008-2008 definitions 1.8]

3.1.2 Pressure Sensor pressuretransducer You can feel the pressure signal, and in accordance with certain rules the pressure signal is converted into usable electrical signal output device or device. [JJF1008-2008 Definition 5.1]

3.1.3 Zero drift and a time interval, the output value of zero amount of change under specified conditions.

3.1.4 Sensitivity the amount of change of the sensor output corresponding to the amount of change in the input ratio. [GB/T 18459-2001 defined 2.3.2] 3.1.5 conformity the percentage positive, the actual average anti-stroke characteristic curve with respect to the maximum deviation of the reference curve, with the full-scale output to represent. [GB/T 18459-2001 defined 2.3.6] 3.2 units of measurement Legal units of measurement used for the pressure sensor Pa (Pascal), or its decimal multiples units. kPa, MPa and the like. The main pressure sensor output voltage (V, mV), current (mA) or frequency (Hz) and the like.