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

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Electronic screw weigher

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Table of Contents

Foreword...	4
1 Scope...	5
2 Normative references...	5
3 Terms and definitions...	6
4 Product model...	8
5 Metrological requirements...	8
5.1 Accuracy classes...	8
5.2 Maximum allowable errors...	8
5.3 Minimum totalized load (summin)...	10
5.4 Minimum flow rate...	10
5.5 Units of measurement...	10
5.6 Simulation test...	10
5.7 Field test...	13
5.8 Exit-factory test...	14
6 Technical requirements...	14
6.1 Technical requirements for the structure...	14
6.2 Safety of operation...	15
6.3 Totalization indicating and printing devices...	16
6.4 Out-of-range indication...	16
6.5 Zero-setting device...	16
6.6 Overload protection...	17
6.7 Auxiliary equipment...	17
6.8 Sealing device...	17
6.9 Load cells...	17
6.10 Speed/displacement detection device...	17
6.11 POST Procedure...	18
6.12 Interference...	18
6.13 Warm-up time...	18
6.14 Interface...	18
6.15 Alternating current power supply (AC)...	18
6.16 Battery supply (DC)...	18
6.17 Safety performance...	19

7 Test methods.....	19
7.1 Appearance inspection...	19
7.2 General requirements for testing...	19
7.3 Simulation test...	20
7.4 On-site overall test...	31
7.5 Exit-factory inspection...	36
7.6 Safety performance test...	37
8 Inspection rules...	37
8.1 Type inspection.....	37
8.2 Initial inspection, in-service inspection...	38
8.3 Exit-factory inspection...	38
9 Marking, packaging, transportation, and storage...	39
9.1 Nameplate...	39
9.2 Packaging...	40
9.3 Transportation...	40
9.4 Storage...	40

Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is redrafted and modified in relation to the International Recommendation of OIML R50-1 "Continuous totalizing automatic weighing instruments (belt weighers) - Part 1. Metrological and technical requirements - Tests" (1997E).

Since the current management mode of measuring products in China is different from the international ones, this standard has more adjustments in structure compared with R50 International Recommendations. For the convenience of comparison, a comparative list of the clauses of this standard to the clauses of International Recommendation is given in informative appendix A.

Due to the legal requirements of China and the special needs of the industry, this standard has been modified when international recommendations are adopted. These technical differences are indicated by a single vertical line in the margin of the clause to which they refer. A list of technical differences and their reasons is given in Appendix

B for reference.

This standard is proposed by China National Light Industry Council.

This standard shall be under the jurisdiction of China Weighing Instrument Standardization Technical Committee (SAC/TC97).

Drafting organizations of this standard. Saimo Electric Co., Ltd., Jiangsu Institute of Metrology, Nanjing San'ai Industrial Control Co., Ltd., Tongling City SSS Electronics Co., Ltd.

1 Scope

This standard specifies the terms, product models, requirements, test methods, inspection rules, marking, packaging, transportation, and storage of electronic screw weighers (also known as screw reamer scales, screw feeder scales, hereinafter referred to as "screw weighers").

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB/T 191 Packaging - Pictorial marking for handling of goods (GB/T 191-2008, ISO 780.1997, MOD)

3 Terms and definitions

The terms and definitions defined in GB/T 14250-2008 and the followings apply to this document.

The intrinsic error of a screw weigher that is determined before the performance test and durability test.

4 Product model

It shall be compiled according to GB/T 26389-2011.

5 Metrological requirements

In the temperature range of $-10\text{ }^{\circ}\text{C}\sim+40\text{ }^{\circ}\text{C}$, the screw weigher shall meet the corresponding metrological requirements and technical requirements.

6 Technical requirements

For a screw weigher, there shall be no accidental failure or control component maladjustment that is not obvious and may interfere with the metrological performance and normal function of the screw weigher.

7 Test methods

It shall be kept free of moisture condensation on the weighing unit of the screw weigher under test.

The electrostatic discharge test shall be carried out according to GB/T 17626.2, and the test level shall be level 3.

8 Inspection rules

For type inspection, 1 test prototype shall be randomly selected from the qualified products, and the sampling base shall not be less than 3.

The initial inspection of a screw weigher shall be carried out after the on-site installation is completed, and the in-service inspection shall be carried out regularly according to its use requirements.

9 Marking, packaging, transportation, and storage

Under normal conditions of use, descriptive signs shall be firm and reliable, have a uniform size and shape, and be clear and legible.

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