



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Digital Electronic
Model: DSW-100
 n_{max} : 3000 to 4800
 e_{min} : see table below
Capacity: see table below
Platform: 20 cm X 23 cm
Accuracy Class: III

Submitted By:

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Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Semi-Automatic Tare (Push Button)
- AC/DC Power Converter (9V)
- DC Power/Battery (6V)
- Sleep Mode
- Auto Shut Off
- Customer Display (Dual)
- Gross/Net Display
- Liquid Crystal Display
- RS-232 Communication Port
- USB Communication Port

Load Cell Used: Huaian ge yang Hao Rui Electronic Technology Co., Ltd. Model DB-2 (Non-NTEP)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*. Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Ivan Hankins
Chairman, NCWM, Inc.

Hal Prince
Chair, NTEP Committee
Issued: January 21, 2022

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**Shanghai Digital Balance Electronic Co. Ltd.**

Non-Computing Scale / DSW-100

Capacity	d	n _{max}
6 lb	0.002 lb	3000
96 oz	0.02 oz	4800
3 kg	0.001 kg	3000
3000 g	1 g	3000
15 lb	0.005 lb	3000
240 oz	0.05 oz	4800
6 kg	0.002 kg	3000
6000 g	2 g	3000
30 lb	0.01 lb	3000
480 oz	0.1 oz	4800
15 kg	0.005 kg	3000
15 000 g	5 g	3000
60 lb	0.02 lb	3000
960 oz	0.2 oz	4800
30 kg	0.010 kg	3000
30 000 g	10 g	3000

Application: For use in general purpose weighing applications.

Identification: The required information is located on a metal plate affixed to the side of the scale housing. Additional information is located near the display.

Sealing: A wire seal is threaded through a metal tab on the underside of the scale that locks a plate over the button that allows access to the metrological functions.

Test Conditions: For the purposes of this evaluation, two scales (a model DSW-100 with a 6 lb x 0.002 lb capacity and a model DSW-100 with a 60 lb x 0.02 lb capacity) were submitted. The emphasis of the evaluation was on the design, marking, operation and compliance with influence factor requirements. Several increasing/decreasing load tests and shift tests were performed on each device. The devices were tested with an AC power supply from 102 VAC to 132 VAC and a DC power supply of 3.2 VDC to 9.9 VDC. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to the units over 100 000 times (each) and the scales were tested periodically during this time.

Evaluated By: E. Morabito (NY)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2021 Edition. *NCWM Publication 14: Measuring Devices*, 2021 Edition.

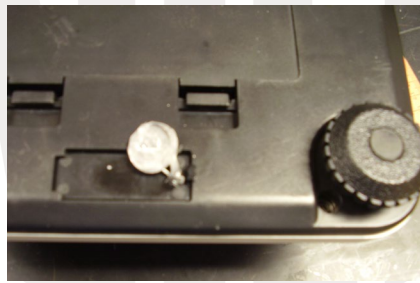
Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: D. Flocken (NCWM)



Shanghai Digital Balance Electronic Co. Ltd.
Non-Computing Scale / DSW-100

Example(s) of Device:



Method of Sealing