



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Multi-range / Digital Electronic
Model: SW-1W
 n_{max} : 2 500
Capacity x d: (see table below)
Platform Size: 9 3/4 in x 7 3/4 in
Accuracy Class: III

Submitted By:

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Standard Features and Options**Standard Features:**

- Semi-automatic (push-button) Zero
- Automatic Zero Setting Mechanism (AZSM)
- Initial Zero Setting Mechanism (IZSM)
- Semi-automatic (push-button) Tare
- Battery Power Supply
- Battery Saving Feature (auto shut off)
- AC/DC Adaptor
- Customer Weight Display
- Units: lb, oz, kg and g
- External Weight Conversion Button
- Liquid Crystal Display (LCD)

Capacity (lb)	d=e	Capacity (oz)	d=e	Capacity (kg)	d=e	Capacity (g)	d=e	n_{max}
0-4/4-10	0.002/0.005lb	0-80/80-160	0.05/0.1oz	0-2.5/2.5-5	0.001/0.002 kg	0-2500/2500-5000	1/2g	2500
0-10/10-20	0.005/0.01 lb	0-200/200-400	0.1/0.2 oz	0-5/5-10	0.002/0.005 kg	0-5,000/5,000-10,000	2/5 g	2500
0-25/25-50	0.01/0.02 lb	0-320/320-800	0.2/0.5 oz	0-10/10-20	0.005/0.01 kg	0-10,000/10,000-20,000	5/10 g	2500

Load Cells Used:

- CAS SW-5L, SW-10L, SW-20L (Non-NTEP)

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of "NIST 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.

Randy Jennings
Chairman, NCWM, Inc.

Judy Cardin
Chairman, National Type Evaluation Program Committee
Issued: September 18, 2009

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CAS (USA) Corporation
Non-Computing Scale / SW-1W

Application: General purpose bench counter scale.

Identification: A metallic identification tag is riveted to the left side of the scale.

Sealing: The scale utilizes a category one sealing method. The scale may be sealed with a wire security seal. This seal is threaded through two sealing screws which secure the sealing plate that prevents access to the calibration switch. The seal is located under the scale in a recessed area inside of the battery compartment.

Operation: The Model SW-1W is available in several different configurations and capacities. This scale has an external lb/oz and kg/g switch which changes the weight ranges and provides the proper weight abbreviations.

Test Conditions: The emphasis of this evaluation was on the device design, marking operation and compliance with influence factor requirements. Two multi-interval versions were provided for the evaluations, a 0-4 x 0.002/ 4-10 x 0.005lb and a 0-25 x 0.01/ 25-50 x 0.02 lb were evaluated. Both of the devices were tested over a temperature range of -10° C to 40° C (14° F to 104° F). These devices had a load of approximately one-half capacity applied over 100,000 times. Several increasing/decreasing load tests and shift tests were conducted periodically during this time. The devices under evaluation were evaluated with power supply voltages of 100 and 130 VAC and the DC battery voltage from 5.8VDC to 10.0 VDC.

Evaluated By: E.A.Payne, Jr. (MD)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2009. NCWM, Publication 14: Weighing Devices, 2009.

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

Information Reviewed By: J. Truex (NCWM)

Example of Device:



Model SW-1W