

***National Type Evaluation Program  
Certificate of Conformance  
for Weighing and Measuring Devices***

**For:**

Bench/Counter Scale  
Digital Electronic  
Models: SB-30, SB-70, SB-150  
 $n_{\max}$ : 3500;  $e_{\min}$ : See Below  
Capacity: See Below  
Platform: See Below  
Accuracy Class: III

**Submitted by:**

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**Standard Features and Options**

Semi-automatic zero setting mechanism  
Semi-automatic (push-button) tare  
AC/DC adapter  
lb/kg toggle switch

Initial zero setting mechanism  
Remote printer capability  
Gross/net display  
LED display

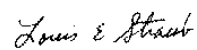
Capacities	Models	$n_{\max}$	Platform
150 lb x 0.05 lb	SB-150	3500	13" x 13"
70 kg x 0.02 kg			
70 lb x 0.05 lb	SB-70	1500	10" x 13"
30 kg x 0.02			
30 lb x 0.01 lb	SB-30	3000	10" x 13"
15 kg x 0.005 kg			


Load cells used: Transcell Models FAD-100, 100 kg; FAD-45, 45 kg; FAD-20, 20 kg

Temperature Range: 0 °C to 40 °C (32 °F to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) 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.

Effective Date: February 8, 2000

  
Louis E. Straub  
Chairman, NCWM, Inc.

  
G. Weston Diggs  
Chairman, National Type Evaluation Program Committee

Issue date: March 16, 2000

Note: The National Conference on Weights and Measures does not "approve", "recommend", or "endorse" any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.

This is a reissuance by the NCWM of a Certificate of Conformance already issued by the National Institute of Standards and Technology.

**A&D Engineering**  
**Bench/Counter Scale**  
**Models: SB-30, SB-70, SB-150**

**Application:** General purpose weighing.

**Identification:** The required marking information is on an adhesive label on the back of the scale.

**Sealing:** Access to the calibration and set-up switch is secured by two drilled head screws that fasten the front cover plate to the frame of the scale. A wire security seal can be threaded through the two screws.

**Test Conditions:** This Certificate is issued based on the following tests and upon information provided by the manufacturer. The Models SB-150 and SB-30 were submitted for evaluation. The emphasis of the evaluation was on device design, operation, performance, marking requirements, and compliance with influence factor requirements. Several increasing/decreasing load and shift tests were conducted. The device was tested over a temperature range of 0 °C to 40 °C (32 °F to 104 °F). A load of approximately one-half capacity was applied to the scale 100 800 times. The scale was tested periodically during this time. Additionally, tests were conducted using 100 VAC and 130 VAC power supplies.

The results of the evaluation indicate the devices comply with applicable requirements of NIST Handbook 44.

**Type Evaluation Criteria Used:** NIST Handbook 44, 2000 Edition

**Tested By:** A. McCoy (OH), W. West (OH), S. Smith (OH)

**Information Reviewed By:** L. Sebring (NIST) and G. Newrock (NIST)