



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Computing Scale  
Digital Electronic  
Model: SWZ Series and CKT Series  
Capacity: 3 lb to 90 lb; 1.5 kg to 40 kg  
 $n_{max}$ : 4500  
Accuracy Class: III

**Submitted By:**

Adam Equipment, Inc.  
1 Fox Hollow Rd  
Oxford, CT 06478  
Tel: 203-790-4774  
Contact: George Costa  
Email: [g.costa@adamequipment.com](mailto:g.costa@adamequipment.com)  
Website: [adamequipment.com](http://adamequipment.com)

### Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Keyboard Tare
- Semi-Automatic Tare (Push Button)
- Single Range CKT / Dual Range SWZ
- Multi-Interval
- AC Power
- DC Power / Internal Battery
- Power Saving Feature (Sleep Mode)
- Power Saving Feature (Auto Shut Off)
- Units: lb, oz, kg, g
- Customer Display
- Liquid Crystal Display
- Pillar Display
- RS-232 Connection Port

Load Cell Used: Xiamen model LAB-B3-C3 (NTEP CC 13-113A2 and Zemic model L6D (NTEP CC 11-012)

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.

Mahesh Albuquerque  
Chairman, NCWM, Inc.

Ivan Hankins  
Chair, NTEP Committee  
Issued: January 30, 2023

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) 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.



**Adam Equipment**  
Computing Scale / SWZ Series and CKT Series

Model	Capacity	d	n <sub>max</sub>	
SWZ 6Da SWZ 6DPa	3 lb / 6 lb	0.001 lb / 0.002 lb	3000	“a” denotes weighing in pounds  “P” denotes scale has a Pillar Display
SWZ 15Da SWZ 15DPa	6 lb / 15 lb	0.002 lb / 0.005 lb	3000	
SWZ 30Da SWZ 30DPa	15 lb / 30 lb	0.005 lb / 0.01lb	3000	
SWZ 60Da SWZ 60DPa	30 lb / 60 lb	0.01 lb / 0.02 lb	3000	
SWZ 3D SWZ 3DP	1.5 kg / 3 kg	0.5 g / 1 g	3000	
SWZ 6D SWZ6DP	3 kg / 6 kg	1 g / 2 g	3000	
SWZ 15D SWZ 15DP	6 kg / 15 kg	2 g / 5 g	3000	
SWZ 30D SWZ 30DP	15 kg / 30 kg	5 g / 10 g	3000	
CKT 4M	9 lb 4 kg	0.002 lb 1 g	4500	
CKT 8M	18 lb 8 kg	0.005 lb 2 g	4500	
CKT 20M	45 lb 20 kg	0.01 lb 5 g	4500	
CKT 40M	90 lb 40 kg	0.02 lb 10 g	4500	

**Application:** For use in general purpose weighing applications.

**Identification:** The self-destructive identification badge may be found on the side of the scale base.

**Sealing:** The scale utilizes a Category 1 Audit Trail. The Configuration Counter and the Calibration Counter appear when the scale is in the start up process. The Configuration Counter is designated as OPT and the Calibration Counter is designated as CAL.

**Test Conditions:** Four scales were submitted for this evaluation: a model SWZ 3D with a 3 kg x 0.001 kg capacity; a model SWZ 30 DP with a 30 kg x 0.01 kg capacity; a model CKT 4M with a 9 lb x 0.002 lb capacity; and a model CKT 40M with a 40 kg x 0.01 kg capacity. The emphasis of the evaluation was on device design, operation, and compliance with environmental factors. Several increasing and decreasing load tests performed. Additionally, they were tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). They also had a load of approximately one half capacity applied over 100,000 times with several increasing / decreasing load tests performed during this time. Several shift and load discrimination tests were conducted during the evaluation. The units under evaluation were tested with supply voltages from 102 to 132 VAC and 4.2 to 6.6 VDC and were also subjected to RFI testing.

**Evaluated By:** E. Morabito (NY)

**Type Evaluation Criteria Used:** *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2022 Edition. *NCWM Publication 14: Measuring Devices*, 2022 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)



**Adam Equipment**  
Computing Scale / SWZ Series and CKT Series

**Example(s) of Device:**



**Model CKT**



**Model SWZ**



**Model SWZ  
with Pillar  
Display**