# National Conference on Weights and Measures
**1135 M Street, Suite 110 • Lincoln, NE 68508**



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

**For:**
Computing Scale
Digital Electronic, Counter/Bench
Model: CM-101
$n_{max}$: 3000
$e_{min}$: 0.01 lb
Capacity: 30 x 0.01 lb
Platform: 345 mm x 230 mm

Accuracy Class: III

**Submitted by:**
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### Standard Features and Options

Automatic zero setting mechanism (Range is selectable internally) *
Semi-automatic (push button) zero
Initial zero setting mechanism (IZSM) (on/off switch)
Keyboard tare
Semi-automatic (push button) tare
120 VAC power supply
6 VDC power supply(Rechargeable battery)
Dual (customer and operator) displays
Category 1 Audit trail (See sealing on page 2)
Tare/Unit price save key

* AZSM may not be disabled

This certificate applies to devices utilizing version (U-495 Release 041115) and subsequent versions. The version can be verified after powering on the scale. At that time, the version (U-495) is displayed in the unit price window and the release number is displayed in the total price window.

Load cell: Shanghai Yousheng Weighing Apparatus Co. Model 603 (Non-NTEP), 15 kg capacity

Temperature Range: 0 °C to 35 °C (32 °F to 95 °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.

Jack Kane
Chairman, NCWM, Inc.

Judith L. Cardin
Chairman, National Type Evaluation Program Committee

Issued Date: October 31, 2008

**Penn Scale Mfg Co., Inc.**
**Computing Scale**
**Model: CM-101**

**Application:** The device is a general purpose computing scale for use in direct sale applications.

**Identification:** The metal identification badge is riveted to the right side of the scale housing near the on/off switch.

**Sealing:** The device is sealed using a category 1audit trail. The device is equipped with two event counters, one for calibration and one for configuration parameters. To access the audit trail:

1. Power the scale off and on using the on/off switch.
2. During the scale countdown, press the "SAVE" key.
3. After the scale countdown is completed, the audit trail information will appear in the display windows:
   -The weight window will display "Audit"
   -The unit price window will display the configuration event counter as "oP X". "X" equals the number of changes
   -The total price window will display the calibration event counter as "CL Y". "Y" equals the number of changes
4. Press any key to return to the normal weighing mode.

**Test Conditions:** This certificate supersedes Certificate of Conformance number 04-101 and is issued to indicate transfer of the NTEP Certificate of Conformance from Master Scale USA, Inc. to Penn Scale Mfg Co., Inc. The NTEP Certificate of Conformance 04-101, though inactive, remains in effect to cover those devices previously sold and installed under the original name. Previous test information and documentation provided by the company was reviewed. The test conditions for the original type evaluation are listed below for reference.

**Certificate of Conformance Number 04-101:** The emphasis of this evaluation was on device design, marking, operation, and compliance with influence factors. The 30 x 0.01 lb model CM-101 (software version U-495 Release 041115) was tested for accuracy over a temperature range of 0 °C to 35 °C (32 °F to 95 °F). A load of one-half scale capacity was applied to the device 100 000 times. Increasing/decreasing load and shift tests were conducted periodically during this time. The device was tested over a voltage range of 102 VAC to 132 VAC, once with the rechargeable battery and once without the rechargeable battery. The device was also tested over a voltage range of 4.9 VDC to 6.6 VDC. The device was tested with the maximum IZSM load of 1.2 lb.

**Evaluated By:** J.T. Price, A.P. Buie (MD)

**Type Evaluation Criteria Used:** NIST Handbook 44, 2004 Edition; NCWM Publication 14, 2004 Edition

**Conclusion:** The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements.

**Reviewed By:** S. Patoray, L. Bernetich (NCWM) 04-101; J. Truex (NCWM) 04-101A1

**Example of Device:**