



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Floor Scale Weighing/Load Receiving Element
 Low Profile, Electronic Load Cell
 Model: 6600 Series
 n_{max} : 5000
 e_{min} : See Below
 Capacity: 1000lb x 0.2lb to 20 000lb x 5lb (See Below)
 Platform: See Below

Accuracy Class: III

***Submitted By: Contact Info. Updated December 2019**

Pennsylvania Scale Company
 665 N Reservoir Street
 Lancaster, PA 17602
 Tel: 717-295-6935
 Fax: 800-768-6350
 Contact: Robert Woodward
 Email: rsw@pascale.com
 Website: www.pascale.com

Standard Features and Options

The model designation for the weighing elements is 6600-XXYY-ZZK where XX represents the deck width, YY represents the deck length, and ZZ represents the capacity in thousand pounds (e.g., 6600-24X24-5K is a 24" x 24", 5000-lb capacity weighing element).

Minimum Platform Size (all capacities):	24" x 24"
Maximum Platform Size (all capacities up to 15 000 lb):	96" x 168"
Maximum Platform Size (capacities greater than 15 000 lb):	96" x 120"

Available capacities and e_{min} :	1000 lb x 0.2 lb
	5000 lb x 1 lb
	10 000 lb x 2 lb
	15 000 lb x 5 lb
	20 000 lb x 5 lb

Load Cells: Sensortronics Model 65023A (Certificate of Conformance Number 86-044A2)
 Epelsa Model LC Series (Certificate of Conformance Number 91-042A1) or NTEP certified equivalent.

Option: Stainless steel construction with Sensortronics Mode 65023S stainless steel load cells (Certificate of Conformance Number 88-298A1)

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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Craig VanBuren
 Chairman, NCWM, Inc.

Stephen Benjamin
 Committee Chair, NTEP Committee
 Issued: August 31, 2001

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Pennsylvania Scale Company

Floor Scale Weighing/Load Receiving Element / 6600 Series

Application: For general-purpose use when interfaced with a certified indicating element.

Identification: The identification plate is on the frame of the scale. The metal badge is attached with pop rivets to the frame of the scale.

Sealing: The load cell junction box is on the side of the base. Two fillister head screws secure a plate over the junction box and may be sealed with a wire security seal.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 90-097A2 and is issued without additional testing to add the Epelsa load cell and indicate other NTEP certified load cells may be used with this device.

Certificate of Conformance Number 90-097A1: This Certificate supersedes Certificate of Conformance Number 90-097A1 and is issued to increase the capacity range to 20 000 lb for the platform size range of 24" x 24" to 96" x 120". The model 6600-96X120-20K (20 000 lb x 5 lb, 96" x 120") was submitted for evaluation. The weighing element had four Sensortronics Model 65023A10K-5107 (Certificate of Conformance Number 88-044A2) load cells and was interfaced with a Pennsylvania Model 5600 (Certificate of Conformance Number 88-114A1) indicating element. Several increasing and decreasing load, shift, and corner tests were conducted using 20 000 lb of known test weights. The scale was used for a period with the minimum requirements by NIST being met and retested in the same manner. Previous test conditions are listed below for reference.

Certificate of Conformance Number 90-097A1: This Certificate superseded Certificate of Conformance Number 90-097 and was issued to include the 96" x 168", 15 000-lb capacity platform. The device tested utilized Sensortronics Model 65023A10K-5107 load cells. This device was evaluated at the manufacturer's production plant, interfaced with a Pennsylvania Model 5600 indicating element. Several increasing and decreasing load, shift, and corner tests were conducted using 15 000 lb of known test weights. The scale was retested after 30 days in use.

Certificate of Conformance Number 90-097: Three models of this series were tested: the 30" x 30", 1000 lb; the 48" x 48", 5000 lb; and the 60" x 60", 10 000 lb. The emphasis of the examination was on the device design and operation. The 1000-lb model was tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A permanence test was conducted by placing a load of approximately one-half capacity on the scale more than 100 000 times. The scale was tested periodically during this time.

The 5000-lb and 10 000-lb models were tested in the field initially and then approximately 30 days later. The scales were tested using one-fourth capacity over each corner, one-half capacity for a shift test, and a distributed weight test to full capacity. Similar corner, shift, and distributed weight tests were performed on the second set of tests.

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

Type Evaluation Criteria Used: NIST Handbook 44, 1999 Edition

Tested By: S. Cook, S. Barron, M. Nichols (CA) 90-097; A. P. Buie, J. T. Price (MD) 90-097A1; A. McCoy (OH) 90-097A2

Reviewed By: S. Patoray (NCWM) 90-097A3