



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Floor Scale Weighing Element
 Load Cell Electronic
 Model: 64 Airline Baggage
 n_{max} : 5000 e_{min} : 0.05 lb to 0.2 lb
 Capacity: 250 lb to 1000 lb
 Platform: 18" x 24" x 5" or 24" x 24" x 5"

Accuracy Class: III

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

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Standard Features and Options

Display Type: Light emitting diode (LED)

Load Cells Used: Tedeo-Huntleigh Model No. 1250 (Single Ended Bending Beam), or
 Tedeo-Huntleigh Model No. 1260 (Single Ended Bending Beam)

Model Description: The Model 64 Airline Baggage scale is comprised of three individually approved National Type Evaluation Program components. This assembly does not affect any metrological functions of the individual components.

- Model 7400 indicating element (Certificate of Conformance Number 97-009) is mounted to the bottom of the weighing element.
- Model 6400 floor scale/weighing element (Certificate of Conformance Number 90-161A2).
- "REM DIS"* (Certificate of Conformance Number 97-009) is connected to the Model 7400 indicating element.

Optional Equipment: REM DIS (remote display) (without function buttons) to be used for installation that could possibly obscure the customer view.

Optional Sizes: Platform sizes are not to exceed 576 square inches.

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

Craig VanBuren
 Chairman, NCWM, Inc.

Stephen Benjamin
 Committee Chair, NTEP Committee
 Issued: April 28, 1999

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Pennsylvania Scale Company
Floor Scale Weighing Element / 64 Airline Baggage

Application: For use in airline baggage weighing at check in.

Identification: The identification badge is riveted to the side of the weighing element. The indicating element is marked with an identical serial number.

Sealing: Sealing is performed on the Model 7400 indicating element.

Test Conditions: This Certificate is issued without additional testing and is based on previous testing of the three components. Previous test conditions are repeated below for reference.

Certificate of Conformance Number 97-009: This Certificate was issued to remove the Models 7400M, 7400, and REM DIS from Certificate of Conformance Number 91-149A2 and to move them to Certificate of Conformance Number 97-009; and to add the Models 7500M and 7600M. This Certificate separates Models 7400M, 7500M and 7600M indicators from similar series of complete scales. The metrological components (electronics and A/D convertors) of the 7X00 Series indicators, weighing elements, and complete scales are identical.

The emphasis of this evaluation was on device design and operation. The Models 7500M and 7600M were interfaced with a load cell simulator to evaluate the operation of the devices at large capacities. Additionally, the indicators were attached to a 100-lb Pennsylvania Model 7000 weighing element (Certificate of Conformance Number 91-149A3) and a printer to verify compliance with the width of zero, zone of uncertainty, motion detection requirements, and the units button feature. The test conditions of Certificates of Conformance Numbers 91-149A1 and 91-149A2 are repeated below for reference.

Certificate of Conformance Number 91-149A2 (dated July 13, 1992): This Certificate was issued to include additional units of measure in the device parameters and to clarify that the components on the certificate may be interfaced with other approved and compatible components to comprise complete weighing systems. This certificate is issued without additional testing based on information provided by the manufacturer.

Certificate of Conformance Number 91-149A1 (dated February 7, 1992): This Certificate was issued to combine the test conditions for two evaluations. The original certificate (Certificate of Conformance Number 91-149) was never published. Certificate of Conformance Number 91-149A1 (dated February 7, 1992) was issued without the amendment suffix.

Two scales were submitted for evaluation. The Model 7300 scale (10 lb capacity) had an integral display and function buttons. The Model 7000 weighing element (100 lb capacity) was interfaced with the Model 7400 electronics box (contains electronics and A/D convertor) and the Model REM DIS indicating element with function buttons were tested together as a unit. Additionally, the Model 7000 weighing element and the REM DIS display with the Model 7400 electronics box were tested separately.

The emphasis of the evaluation was on the device design and operation. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F) and with power supplies of 100 VAC and 130 VAC. A test load of approximately one-half capacity was applied more than 100 000 times to the Model 7300 scale, Model 7000 weighing element interfaced with the REM DIS display, and Model 7400 electronics box. The scales were tested periodically during this time.

Certificate of Conformance Number 90-161A2: This Certificate superseded Certificate of Conformance Number 90-161A1 and was issued without additional testing based on information provided by the manufacturer, to include an optional Teda Huntleigh Model 1260 load cell.

Certificate of Conformance Number 90-161A1: This Certificate superseded Certificate of Conformance Number 90-161 and was issued without additional testing to include an optional 18" x 18" scale platform.

Certificate of Conformance Number 90-161: The emphasis of the evaluation was on the device design, marking, and compliance with influence factor requirements. Two scales in the family were interfaced with approved indicators. Several increasing/decreasing load and shift tests were performed. The scales were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half scale capacity was applied to the scales more than 100 000 times. The scales were tested periodically during this time.



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The results of the evaluations and information provided by the manufacturer indicate the devices comply with applicable requirements specified in Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1998 Edition

Tested By: A.P. Buié and J. T. Price (MD) 97-009; B. Badenhop (OH) and J. Truex (OH) 90-161

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