



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element

Digital Electronic

Model: 6880

 n_{max} : 2 500 e_{min} : 0.2 lb (0.1 kg)

Capacity: 500 lb (250 kg)

Platform: See dimension and area information in SFO box

Accuracy Class: III

***Submitted By: Contact Info. Updated December 2022**

Cardinal Scale Manufacturing Company

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Contact: Thomas Schuller

Email: tschuller@cardet.comWeb site: www.cardet.com**Standard Features and Options****Platform Construction:**

- Mild steel frame
- Plastic seat
- Mild steel footrest

Platform Dimensions and Areas:

- Platform dimensions of device evaluated:
 - "Upper platform" (seat): 18 in x 13 in (45.72 cm x 33.02 cm).
 - "Lower platform" (footrest): 16-5/8 in x 7-1/2 in (42.23 cm x 19.05 cm).
- Maximum platform areas:
 - "Upper platform" (seat): 234 sq in (1509.7 sq cm).
 - "Lower platform" (footrest): 124.7 sq in (804.5 sq cm).
- Each individual platform length or width can be 125% greater than the evaluated dimension, but each individual overall platform area cannot exceed that listed above.

Load Cells Used:

- The load cell used during the evaluation was a Cardinal Scale model SPZ (NTEP CC 21-074), which can be substituted with any NTEP certified and metrologically equivalent load cell.

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.

Ivan Hankins
Chairman, NCWM, Inc.

Hal Prince
Chair, NTEP Committee
Issued: June 17, 2022

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Cardinal Scale Manufacturing Company

Weighing/Load Receiving Element / 6880

Application: General purpose weighing/load receiving element when connected to an NTEP certified and compatible indicating element.

Identification: The identification information is printed on a tamper-proof security label affixed to the framework.

Sealing: The load receiving element has no metrological functions that require the use of a security seal. Calibration and configuration of the scale are done through the indicator and sealed according to the manufacturer's instructions for the indicator used.

Test Conditions: For this evaluation a Cardinal Scale Model 6880 500 lb x 0.2 lb capacity weighing/load receiving element was submitted. The weighing element was attached to a Cardinal Scale indicating element Model 205 (Certificate Number 01-011). The emphasis of the evaluation was on device design, operation, marking requirements, performance, and compliance with influence factor requirements. Multiple increasing/decreasing load and eccentricity tests were performed. Discrimination and zone of uncertainty tests were conducted. The load receiving element was 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 weighing/load receiving element over 100 000 times and at the conclusion of permanence testing increase/decrease and eccentricity testing was repeated.

Evaluated By: J. Gibson, B. Stone (OH)

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)

Examples of Device:

