



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Floor Scale, Load Cell Electronic
Model: 6000
 n_{max} : 5000
 e_{min} : 0.2 lb
Capacity: 1000 lb (453 kg)
Platform: See below
Accuracy Class: III

Submitted By:

Cardinal Scale Manufacturing Company
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Standard Features and Options

Platform Construction:

- Mild steel

Platform Dimension and Area:

- Platform dimension of device evaluated: 40 in x 40 in (101 cm x 101 cm).
- Maximum platform area: 1600 sq in (10 322 cm²).
- The platform length or width can be 125% greater than the evaluated dimensions (maximum of 50 in (127 cm), but overall platform area cannot exceed 1600 sq in (10 322 cm²).

NTEP and non-NTEP Load Cell:

- The load cell used during the evaluation was a Cardinal Scale Manufacturing Company, model LFB (listed on Certificate of Conformance Number 20-047), which can be substituted with another NTEP certified and metrologically equivalent load cell.

Temperature Range: 10 °C to 40 °C (50 °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 *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
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Cardinal / Detector Scale Manufacturing Company

Weighing/Load Receiving Element Model 6000

Application: The weighing/load receiving element may be used for general weighing purposes when interfaced with a compatible and NTEP certified indicating element.

Identification: An adhesive identification badge is located on the side of the device.

Sealing: A wire security seal may be attached to two screws located underneath a black cap on the platter (see image below).

Operation: The device has a level indicator attached to the top of the platform under a black cap.

Test Conditions: The emphasis of the evaluation was on the device design, performance, marking requirements, and compliance with influence factor requirements. The Cardinal Scale model 6000 W/LRE was evaluated at 1000 x 0.2 lb. Several increasing/decreasing load tests and shift tests were performed. The model 6000 was tested over a temperature range of 10 °C to 40 °C (50 °F to 104 °F). A load of approximately one-half capacity was applied to the scale 100 000 times. The shift test, discrimination, and linearity were repeated after the permanence test.

Evaluated By: B. Sipe (OH) 23-041 (CN:10695)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2023 Edition. *NCWM Publication 14: Weighing Devices*, 2023 Edition.

Conclusion: The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

Information Reviewed By: Darrell Flocken (NCWM) 23-041

Example(s) of Device:

Model 6000:





Cardinal / Detector Scale Manufacturing Company
Weighing/Load Receiving Element Model 6000

Sealing for Model 6000:

