



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Platform, Load Cell, Electronic
Model: FH5XY-F Series
 n_{max} : 5 000 / 2 200 kg
 e_{min} : 1 lb / 0.5 kg
Capacity: 5 000 lb
Platform: (see below)
Accuracy Class: III

***Submitted By: Contact Info. Updated: October 2010**

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Standard Features and Options

Model*	Capacity	e_{min}	Maximum Area**
FH5XY-F	5 000 lb / 2 200 kg	1 lb / 0.5 kg	25 square feet

* Where X = width of platform in feet and Y = length of platform in feet

** Platform: Dimensions covered by this certificate include a minimum length or width of 2 feet to a maximum length or width of 6 feet. Platform areas of a minimum of 4 square feet to a maximum of 25 square feet.

Construction:


- Mild Steel


Load Cells Used:

- 4 Cardinal Model TB-2.5K strain gauge bending beam load cell (NTEP Certificate of Conformance No. 99-018) or certified metrological equivalent with equal or lesser v_{min}

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.


Tim Tyson
Chairman, NCWM, Inc.


Randy Jennings
Chairman, National Type Evaluation Program Committee
Issued: October 19, 2010

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Cardinal Scale Manufacturing Co.

Weighing/Load Receiving Element / FH5XY-F Series

Application: General purpose load-receiving element when connected to a certified and compatible indicating element.

Identification: The engraved identification badge is riveted to the side of the platform.

Sealing: The load cell junction box can be sealed with a wire security seal threaded through two screws in the cover.

Test Conditions: A 5000-lb, 5 ft x 5 ft (Model FH555-F) 5000 x 1 lb was submitted for evaluation. This Weighing/Load Receiving element was interfaced with a Cardinal Model 210 Weight Indicator (Certificate of Conformance No. 01-011). The emphasis of this evaluation was on device design, marking requirements, and performance. Several increasing / decreasing loads (up to 5000 lb) and corner shift tests were conducted during the initial evaluation. After conduct of the initial evaluation, an appropriate permanence test was conducted after which the device was subjected to the same tests conducted during the initial evaluation.

Evaluated By: Terry Davis (KS), Milton Carlin (KS)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2006. NCWM, Publication 14: Weighing Devices, 2006.

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

Information Reviewed By: S. Patoray, L. Bernetich (NCWM)

Example of Device:



Model FH5XY-F Series