



## NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Weighing/Load Receiving Element  
Platform, Low Profile, Load Cell Electronic  
Model: FH-XXYYYY-II  
 $n_{max}$ : 5 000  
 $e_{min}$ : 1 lb  
Capacity: 5 000 lb to 20 000 lb  
Platform: 2' x 2' to 12' x 10'  
Accuracy Class: III

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

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**Standard Features and Options**

- Model number denotes capacity and platform size, where XX is the capacity in thousands of pounds and YYYY describes the platform dimensions in feet.
- Model numbers of weighing elements covered by this certificate are in the range of FH 522-II to FH 201210-II, inclusive (see below).


Model Number	Maximum Platform Area (sq ft)	Capacity (lb)	$e_{min}$ (lb)	Load Cells
FH-5YY-II	35	5000	1	SB-2500S
FH-10YY-II	63	10 000	2	SB-5000S
FH-20YYYY-II	120	20 000	5	SB-10000S

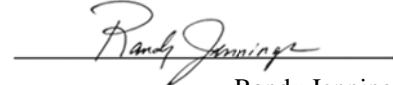
**Load Cells Used:**

- (4) Cardinal Models SB-2500S, SB-5000S, and SB-10000S or certified equivalent
- Cardinal Detecto SB Series (Certificate of Conformance Number 87-059A1)

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 28, 2010

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## Cardinal Scale Manufacturing Co.

Weighing/Load Receiving Element / FH-XXYYY-II

**Application:** General purpose floor scale.

**Identification:** The identification plate is riveted on the side of the scale base.

**Sealing:** A wire security seal can be threaded through drilled head screws, securing the access to the load cell junction box on the bottom of the weighing element or access cover from top.

**Test Conditions:** This Certificate supersedes Certificate of Conformance Number 90-069A2 and is issued to correct the  $e_{\min}$  of the device on this certificate. Based on results of previous tests, no additional testing was required. The previous test conditions are repeated below for reference.

**Certificate of Conformance Number 90-069A2:** This Certificate supersedes Certificate of Conformance Number 90-069A1 and is issued to increase the platform area to 120 sq ft. A Model FH 201210-II (20 000 lb x 5 lb capacity, 12' x 10') was tested initially by performing four increasing/decreasing load tests to capacity. In addition, two corner tests at 5000 lb and two shift tests at 10 000 lb were conducted. The tests were repeated after the device was used for over 21 days and over 300 weighments.

**Certificate of Conformance Number 90-069A1:** The Model FH 2075-II (20 000 lb x 5 lb capacity, 7' x 5') was tested initially by performing four increasing/decreasing load tests to capacity. In addition, two corner tests at 5000 lb and two shift tests at 10 000 lb were conducted. The tests were repeated after the device was used for over 21 days and over 300 weighments.

**Certificate of Conformance Number 90-069:** The Model FH 10106-II, 10 000 lb capacity weighing element was installed with a Cardinal Model 738 indicator for this evaluation. Two increasing/decreasing load tests were conducted with 10 000 lb of test weights. In addition, two corner tests at 2500 lb and two shift tests at 5000 lb were conducted. These tests were repeated approximately 30 days later. The Model FH 575-II, 5000 lb capacity, was evaluated with three increasing/decreasing load tests using 5000 lb of test weights. In addition, two corner tests at 1250 lb and two shift tests at 2500 lb were conducted. These tests were repeated approximately 30 days later.

**Evaluated By:** S. Cook (CA), S. Barron (CA), G. Castro (CA), Jody Schofield (MO) 90-069; B. Badenhop (OH) 90-069A1; C. Carter (OK) 90-069A2

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 1998. NCWM, Publication 14: Weighing Devices, 1998.

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

**Information Reviewed By:** S. Patoray (NCWM) 90-069A3