



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Load Cell Electronic
Model: HFS XXXXXX YY and HFS SS XXXXXX YY*
 n_{max} : 5000
 e_{min} : (see below)
Capacity: 5000 lb x 1 lb to 20 000 lb x 5 lb
Platform: 48 in x 48 in to 72 in x 120 in (max. 8640 sq in)
Accuracy Class: III

Submitted By:

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Standard Features and Options

*Models covered by this Certificate are HFS XXXXX-YY where XXXXX represents the length and width in inches and YY represents the capacity in thousands of pounds. SS suffix designates stainless steel construction material.

Load Cell:

Revere/Transducer Model 5123-A5 (Certificate of Conformance Number 86-037A)

e_{min} :

- 1 lb for 5000 lb capacity scale (2.5K load cells)
- 2 lb for 10 000 lb capacity scale (5K load cells)
- 5 lb for 20 000 lb capacity scale (10K load cells)

Standards:

- Four Load Cell Construction
- Deck Eye Bolt Holes
- Diamond Plate Steel Deck

Options:

- SS Prefix Designates Stainless Steel Construction
- Stainless Steel Load Cells
- Remote Stainless Steel N4 Rated Load Cell Junction Box
- Base Wash-out Plate
- Pit Installation Brackets
- Top Access Leveling
- Top Access Load Cell Junction Box
- Bumper Guards
- Loading Ramps
- Smooth Deck

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.

Stephen Benjamin
Chairman, NCWM, Inc.

Kurt Floren
Committee Chair, National Type Evaluation Program Committee
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**CAS USA Corporation**

Weighing/Load Receiving Element / HFS XXXXXX YY and HFS SS XXXXXX YY

Application:Floor scale for general purpose weighing, when used with an NTEP certified and compatible indicating element.

Identification:An identification plate is on the side of the weighing element next to the load cell junction box.

Sealing:Access to the load cell junction box can be sealed with a wire security seal. If a remote junction box is used, seal the cover of the remote box to the case using a wire security seal.

Test Conditions:This certificate is issued based upon the following tests and upon information submitted by the manufacturer. The Models HFS 6060-10 (10 000 x 2 lb), and Model HFS 72120-20 (20 000 x 5 lb) were submitted for evaluation. These weighing elements were interfaced to UMC 600 AAAC indicators (Certificate of Conformance Number 88-070A2). A series of four increasing/decreasing load and four corner/shift tests were conducted on each weighing element. A permanence test was conducted consisting of four increasing/decreasing load and four corner/shift tests after the scales were used for approximately 30 days and 300 weighments. A 5000 lb capacity 48" x 48" weighing element was also tested in the field. The weighing element was connected to a UMC 600 AAAC indicator (Certificate of Conformance Number 88-070A2). Four increasing/decreasing load tests and four corner/shift tests were conducted. A permanence test was conducted consisting of four increasing/decreasing load and four corner/shift tests after the element was used for approximately 30 days and 300 weighments.

Evaluated By:B. Fishman (NY)

Type Evaluation Criteria Used:*NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2012 Edition. *NCWM Publication 14 Weighing Devices*, 2012 Edition.

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

Information Reviewed By:J. Truex (NCWM)

Examples of Device:

