



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Digital Electronic
Models: FSP_{XXX} & FSP-SS_{XXX}
 n_{max} : 5 000
 e_{min} : 0.2 lb
Capacity: 1000 lb to 10 000 lb
Platform: 3 ft x 3 ft to 5 ft x 5 ft
Accuracy Class: III

Submitted By:

Anyload LLC
1275 Bloomfield Ave
Bldg. 6 #30R
Fairfield, NJ 07004
Tel: 855 269 5623
Fax: 866 612 9088
Contact: Gary Gui
Email: gary.gui@anyload.com
Web site: www.anyload.com

Standard Features and Options

The relationship of the value for the load cell verification interval (v_{min}) to the scale division (e) for a specific scale installation shall be: $v_{min} \leq e \div \sqrt{N}$ (where N is the number of load cells in the scale)

Model:

XXX in model number is the platform size.

Construction:

Painted Mild Steel or Stainless Steel

Load Cells Used:

Four Anyload Model: 563YH (NTEP CC 16-090) or other NTEP Certified Metrological Equivalent


Indicator Used:

Site Test: Mettler-Toledo Model IND560 (NTEP CC 05-057) or other NTEP Certified and compatible.
Laboratory Test: Anyload model 805TS (NTEP CC 10-039) or other NTEP Certified and compatible.

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.


Brett Gurney
Chairman, NCWM, Inc.


James Cassidy
Committee Chair, National Type Evaluation Program Committee
Issued: October 15, 2018

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Anyload LLC

Weighing/Load Receiving Element / FSPxxx & FSP-SSxxx

Application: For general purpose weighing applications when interfaced with a NTEP certified and compatible indicating element.

Identification: The required information is on a metal badge riveted to the side of the frame.

Sealing: Sealing is done according to the indicator being used and the J-box under the cover plate on the platform.

Test Conditions: This certificate supersedes Certificate of Conformance Number 17-130 and is issued to lower the ϵ_{min} and capacity and extend the size. Two Anyload model: FSPXXX weighing load receiving elements were submitted for evaluation. A 1000 lb x 0.2 lb and a 2500 lb x 0.5 lb were submitted with the emphasis of the evaluation being on device design and operation. The devices were interfaced with an Anyload Model 805TS (Certificate of Conformance Number 10-039) indicating element. The 1000lb x 0.2 lb device was submitted to the laboratory where multiple increasing/decreasing, eccentricity and discrimination tests were performed. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Permanence testing was performed with a load of approximately one-half capacity and was applied to the weighing load receiving element over 100 000 times. The weighing load receiving element was tested periodically during this time. The increase/decrease, eccentricity and discrimination tests were repeated after the conclusion of the permanence test.

The 2500 lb x 0.5 lb device was tested at a service facility and interfaced with a Mettler-Toledo Model IND560 (NTEP CC 05-057) indicating element. Multiple increasing/decreasing, eccentricity, corner and discrimination tests were performed. A permanence test of 300 weighments was conducted over a 30-day period. Increasing/decreasing, eccentricity and corner tests were conducted at the end of the permanence test. Previous test conditions are listed below for reference.

Certificate of Conformance 17-130: The emphasis of the evaluation was on the device design, operation, and marking requirements. A 10 000 x 2 lb (48 in x 48 in) platform was submitted for evaluation interfaced with a Mettler Toledo Model IND560 (Certificate of Conformance Number 05-057) indicator. The device was evaluated at a service facility. Several increasing/decreasing, shift, corner and discrimination tests were performed. Permanence testing of 300 weighments was conducted over a 20-day period. Increasing/decreasing tests, shift tests, and corner tests were conducted at the end of the permanence test.

Evaluated By: M. Kelley (OH) 17-130; J. Gibson (OH) 17-130A1

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2018 Edition. *NCWM Publication 14 Weighing Devices*, 2018 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) 17-130, 17-130A1

Examples of Device:

