

State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 4141(a)-05
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California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Floor Scale Weighing/Load-Receiving Element
Load Cell Electronic
Model: FEPS-XXYY-ZZ
 n_{max} : 5 000
Capacity: 2 500 lb, 5 000 lb and 10 000 lb
Platform: 48" x 48" to 96" x 96"

Accuracy Class: III

Submitted by:

Scales Unlimited, Inc.
4814 E. Hwy. 20-26
Caldwell, ID 83605
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Standard Features and Options

Model	XX (Width)	YY (Length)	ZZ (Capacity)	d (Division Size)
FEPS-4848-2.5	48"	48"	2 500 lb	0.5 lb
FEPS-4848-5	48"	48"	5 000 lb	1.0 lb
FEPS-4848-10*	96"	96"	10 000 lb	2.0 lb

Load cells: Revere Transducers, Inc. double ended shear beam, Model 5103-B10-30K-ZZZZ (Certificate of Conformance Number 86-039A3)
Sensortronics, Model 65023A5K-5107 (Certificate of Conformance Number 86-044) or suitable equivalent

* Ball and socket mounting feet required

Temperature Range: -10 °C to 40 °C (14 °F to 104 °F)

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: September 22, 2005



Mike Cleary, Director

Scales Unlimited, Inc.
Floor Scale Weighing/Load-Receiving Element
Model: FEPS-XXYY-ZZ

Application: General purpose low profile floor scale when interfaced to a certified and compatible digital indicator.

Identification: The identification badge is located on the outside of the frame near the point where the cable connects to the weighing/load-receiving element.

Sealing: A wire security seal can be applied to the junction box.

Test Conditions: This certificate supersedes Certificate of Approval Number 4141-94 and is issued to include the Model FEPS-9696-10, 10 000 lb weighing element. The Model FEPS-9696-10 interfaced to a Velcon-Flexweigh Model 5 was submitted for evaluation. The emphasis of the evaluation was on the weighing element's performance and operation. The weighing element was tested to capacity using known test weights. Several increasing/decreasing load, discrimination, and return to zero tests were conducted. The device was sealed and retested in the same manner after the required time and minimum number of weighments was completed. Previous test conditions are listed below for reference.

Certificate of Approval Number 4141-94: Model number FEPS-4848-5K, equipped with Artech 30310 load cells and interfaced to a Flexweigh DWM-IV indicating element, was tested. A corner test to 1 250 lb, a distributed increasing load test to capacity, and a decreasing load test were performed. This test was followed by a shift test to 2 500 lb, a distributed increasing load test to capacity, and a decreasing load test. Both were repeated. The junction box and indicator were then sealed.

Model number FEPS-4848-2.5K, equipped with Artech 30310 load cells and interfaced to a Flexweigh DWM-IV indicating element, was tested. A corner test to 650 lb, a distributed increasing load test to capacity, and a decreasing load test were performed. This test was followed by a shift test to 1 250 lb capacity, a distributed increasing load test to capacity, and a decreasing load test. Both were repeated. The junction box and indicator were then sealed.

Approximately 30 days later and after at least 300 applications of over 1/2 capacity were applied to each scale, the tests were repeated once following the same procedure as the initial tests.

Results of the evaluations indicate the devices comply with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2005 Edition

Tested By: J. Clifford (OR) 4141-94 and Dan Parks (CA) 4141 (a)-05