



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Load Cell Electronic
Models: OP-916 Series (formerly LP7620)
 n_{max} : 5 000
 e_{min} : 0.2 lb
Capacity: 1000 lb to 20 000 lb
Platform: 2 ft x 2 ft to 7 ft x 7 ft (see below)
Accuracy Class: III

Submitted By:

Optima Scale Manufacturing Inc.
9030 Bridgeport Place
Rancho Cucamonga, CA 91730
Contact: John Fu
Tel: 800-360-9619
Fax: 888-502-8997
Email: sales@optimascale.com
Web site: www.optimascale.com

Standard Features and Options

Platform Sizes, Capacities and Parameters:

Range of Platform Sizes		Capacities (lb)		Range of e_{min} Values (lb)	
From	To	From	To	From	To
2' x 2'	7' x 7'	1 000 x 0.2	20 000 x 5	0.2	5

May have platform areas up to but not larger than that evaluated at each capacity, with lengths or widths no greater than 125 % of either dimension tested.

Options:

- Forklift channels; utility ramps; side rails; pit frames; wheels; stands

Platform Construction:

- Smooth or diamond plate steel deck.
- Carbon powder coated or stainless steel (possible suffix "SS" to designate stainless steel construction).

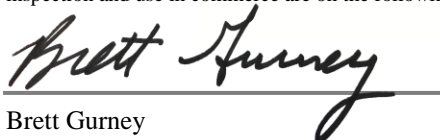
The relationship of the value for the load cell verification interval (v_{min}) to the scale division (e) for a specific scale installation shall be: $v_{min} \leq e \div \sqrt{N}$ (where N is the number of load cells in the scale).

Load Cell Used:

- Tufner Weighing System Model: T310 (NTEP CC 17-132) Shear Beam or other NTEP certified and metrologically equivalent.

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
Chairman, National Type Evaluation Program Committee
Issued: August 7, 2018

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

The National Conference on Weights and Measures (NCWM) does not approve, recommend or endorse any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.



Optima Scale Manufacturing Inc.

Weighing/Load Receiving Element / OP-916 Series

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

Identification: An identification plate is mounted on the side of the weighing element.

Sealing: Access to the load cell junction box can be sealed with a wire security seal.

Test Conditions: This Certificate supersedes Certificate of Conformance number 10-081A1 and is issued to increase the family. A 2 ft x 2 ft 1000 x 0.2 lb was evaluated in the lab, and a 7 ft x 7 ft 20 000 x 5 lb weighing element was evaluated in the field at the manufacturer's facility. Several increasing/decreasing load tests and corner shift tests were conducted using certified weights during the initial field evaluation. Several increasing/decreasing tests and corner shift tests were repeated after the permanence requirements were met. The 1000 x 0.2 lb scale was tested in the lab. Several increasing/decreasing tests, shift tests and discrimination tests were performed. The scale was tested at -10 °C to 40 °C (14 °F to 104 °F). A test load of approximately ½ capacity was applied to the scale over 100 000 times and tested periodically during the permanence test.

Certificate of Conformance Number 10-081A1: This Certificate supersedes Certificate of Conformance number 10-081 and is issued without additional tests to reactivate Certificate of Conformance number 10-081 without lapse. This Certificate also indicates transfer of the NTEP Certificate of Conformance from Locosc Precision Technology Corp. to Optima Scale Manufacturing Inc. and a change of the model number from LP7620 to OP-916. The certificate covers those devices previously sold and installed under the previous name. Previous test information and documentation provided by the company was reviewed. Previous test conditions are listed below for reference.

Certificate of Conformance Number 10-081: The emphasis of the evaluation was on the design, performance, and marking requirements of the weighing element. A 2500 lb 2 x 2 ft and a 10 000 lb 5 x 7 ft weighing element were evaluated at the manufacturer's assigned location. The weighing elements were interfaced with a Locosc Precision Technology weighing indicator (Model LP7510A, NTEP CC 09-070A1). Several increasing/decreasing load tests and corner shift tests were conducted using certified weights during the initial evaluation. After conducting the initial evaluation, appropriate permanence criteria were met, after which the device was subjected to the same tests conducted during the initial evaluation.

Evaluated By: T. Davis (KS) 10-081; M. Kelley (OH) 10-081A2

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) 10-081, 10-081A1, 10-081A2

Example of Device:

