



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element

Model: 3900LP Series

 n_{max} : 5000 e_{min} : See chart below

Capacity: 50 lb to 1000 lb / 30 kg to 500 kg (See chart below)

Platform: (See chart below)

Accuracy Class: III

Submitted By:

Brecknell

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Model	Capacity	e_{min}	n_{max}	Platform Size
3900LP 1111	50 lb / 100 lb / 200 lb 30 kg / 50 kg / 100 kg	0.01 lb / 0.02 lb / 0.05 lb 0.01 kg / 0.01 kg / 0.02 kg	5000	28 cm x 28 cm
3900LP 1212	50 lb / 100 lb / 200 lb 30 kg / 50 kg / 100 kg	0.01 lb / 0.02 lb / 0.05 lb 0.01 kg / 0.01 kg / 0.02 kg	5000	30 cm x 30 cm
3900LP 1216	50 lb / 100 lb / 250 lb 30 kg / 50 kg / 100kg/ 150 kg	0.01 lb / 0.02 lb / 0.05 lb 0.01 kg / 0.01 kg / 0.02 kg / 0.05kg	5000	30 cm x 40 cm
3900LP 1418	50 lb / 100 lb / 250 lb 30 kg / 50 kg / 100kg/ 150 kg	0.01 lb / 0.02 lb / 0.05 lb 0.01 kg / 0.01 kg / 0.02 kg / 0.05kg	5000	35 cm x 45 cm
3900LP 1616	50 lb / 100 lb / 250 lb 30 kg / 50 kg / 100kg/150 kg	0.01 lb / 0.02 lb / 0.05 lb 0.01 kg / 0.01 kg / 0.02 kg / 0.05kg	5000	40 cm x 40 cm
3900LP 1620	50 lb / 100 lb / 250 lb 30 kg / 50 kg / 100kg/150 kg	0.01 lb / 0.02 lb / 0.05 lb 0.01 kg / 0.01 kg / 0.02 kg / 0.05kg	5000	40 cm x 50 cm
3900LP 1721	100 lb / 250 lb / 500 lb / 600 lb 50 kg / 100kg/ 150 kg / 250 kg / 300 kg	0.02 lb / 0.05 lb / 0.1 lb / 0.2 lb 0.01 kg / 0.02kg / 0.05 kg / 0.05 kg / 0.1 kg	5000	42 cm x 52 cm
3900LP 1824	100 lb / 250 lb / 500 lb / 600 lb 50 kg / 100kg/ 150 kg / 250 kg / 300 kg	0.02 lb / 0.05 lb / 0.1 lb / 0.2 lb 0.01 kg / 0.02kg / 0.05 kg / 0.05 kg / 0.1 kg	5000	45 cm x 60 cm
3900LP 2024	100 lb / 250 lb / 500 lb / 600 lb 50 kg / 100kg/ 150 kg / 250 kg / 300 kg	0.02 lb / 0.05 lb / 0.1 lb / 0.2 lb 0.01 kg / 0.02kg / 0.05 kg / 0.05 kg / 0.1 kg	5000	50 cm x 60 cm
3900LP 2424	250 lb / 500 lb / 1000 lb 150 kg / 250kg/ 300 kg / 500 kg	0.05 lb / 0.1 lb / 0.2 lb 0.05 kg / 0.05kg / 0.1 kg / 0.1 kg	5000	60 cm x 60 cm


Load Cells used: Changzhou Newton Force Weighing System Co., LTD. models XD6-E (50 kg – 200 kg) [non-NTEP] and XD6-G (100 kg – 635 kg) [non-NTEP].

Model number format: 3900LP xxyy-cc, where xxyy is length x width in nominal inches and CC designates capacity in kg

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
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**Brecknell****Weighing/Load Receiving Element / 3900LP Series**

Application: General purpose weighing/load receiving element

Identification: The required markings are located on a sticker affixed to the frame beneath the platter.

Sealing: The weighing/load receiving element has no metrological functions that require the use of a security seal. Calibration and configuration of the scale are performed through the indicating element.

Test Conditions: This certificate was issued based upon the following tests and upon information provided by the manufacturer. For this evaluation, three units were provided as follows: a model 3900LP 1620, 50 lb x 0.01 lb; a model 3900LP 1721 250 lb x 0.05 lb; and a model 3900LP 2424 1000 lb x 0.2 lb capacity were connected to a Brecknell model SBI 110 indicating element (NTEP CC 18-125). The emphasis of the evaluation was on device design, marking, operation and compliance with influence factor requirements. Several increasing/decreasing load, shift tests and level indication tests were performed. The scales were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately 1/2 capacity was applied to the scale over 100 000 times and tests were conducted periodically.

Evaluated By: E. Morabito (NY)

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)

Examples of Device:



3900LP



3900LP, shroud removed