



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Model: NT Series
 n_{max} : 5000
 e_{min} : See chart below
Capacity: 50 lb to 1000 lb / 30 kg to 500 kg (See chart below)
Platform: 28 cm² to 60 cm² (See chart below)
Accuracy Class: III

Submitted By:

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Standard Features and Options

Model	Capacity	e_{min}	n_{max}	Platform Size
NT 2828	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
NT3030	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
NT3040	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
NT3545	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
NT4040	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
NT4050	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
NT4252	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
NT4560	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
NT5060	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
NT6060	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].

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.

Kristin Macey
Chairman, NCWM, Inc.

Jerry Buendel
Committee Chair, National Type Evaluation Program Committee
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Gravity Measurement, Inc.
Weighing/Load Receiving Element / NT 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 is issued based upon the following tests and upon information provided by the manufacturer. For this evaluation, three units were provided as follows: a model NT 4050, 50 lb x 0.01 lb capacity that was connected with a model CWB22 indicator (NTEP CC 17-057); a model NT 4252, 250 lb x 0.05 lb capacity that was connected to a model CWB22 indicator (NTEP CC 17-057); and a model NT 6060, 1000 lb x 0.2 lb capacity connected to a model SWB9 indicator (NTEP CC 17-057). 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.

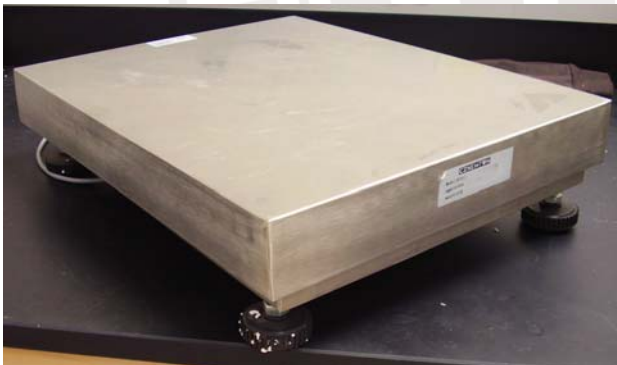
Evaluated By: E. Morabito (NY)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Weighing Devices*, 2017 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:



NT 4050



NT 6060