



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Computing Scale
Non-computing Scale, Digital electronic
Model: NTP, NTW & NTC Series
 m_{max} : See Table (Page 2)
 m_{min} : See Table (Page 2)
Capacity: See Table (Page 2)
Platform: See Table (Page 2)
Accuracy Class: III

Submitted By:

Gravity Measurement, Inc.
611 Rotterdam Industrial Park
Schenectady, NY 12306
Tel: 518-526-5942
Contact: Z. Rick Pang
Email: pang@gravitymeasurement.com
Web site: www.gravitymeasurement.com

Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Keyboard Tare
- Programmable Tare
- Semi-Automatic Tare (Push Button)
- AC Power (100-240 V)
- DC Power (12 V)
- Battery Power (6V)
- Liquid Crystal Display
- Alphanumeric Display
- RS232 Communications
- Linearity Calibration Points
- Price calculation
- Weighing
- Counting
- Accumulation

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
Issued: May 22, 2017

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.



Gravity Measurement, Inc.
Computing Scale / NTP, NTW & NTC Series

Model	Capacity	e_{min}	n_{max}	Platform Size
NTx-abcA-y	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 (A)
NTx-abcB-y	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 (B)
NTx-abcC-y	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 (C)
NTx-abcD-y	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 (D)
NTx-abcE-y	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 (E)
NTx-abcF-y	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 (F)
NTx-abcG-y	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 (G)
NTx-abcH-y	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 (H)
NTx-abcI-y	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 (I)
NTx-abcJ-y	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 (J)

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].

Note: In the model number, NTP designates price computing (Pricing), NTW designates non-computing (Weighing), and NTC designates counting. NTC models are required to be labeled “Counting feature not legal for trade”. The “abc” designates the information of the capacity, material and division of the NT series weighing receiving element (NTEP certificated of Conformance Number 17-067). “A-J” designate the dimension of NT series weighing receiving element. The “y” designates the indicator being used. The following indicators are approved for use with the NTP, NTW and NTC series: CPB9, CWBx, CWBRx, SPB9, SWBx, SWBRx (NTEP Certificate of Conformance Number 17-057). Example: NTW-0050CS12F-CWB7

Application: For use in general purpose weighing applications. May be set-up for use as a computing or non-computing scale.

Identification: The required making information is located on the back of the indicator and also affixed to the frame of the load receiving element.

Sealing: Option 1: A wire security seal through two screws or a screw and a rod located on the underside of the indicator.

Option 2: A paper security seal placed across the enclosure seam on the side of the indicator.

Test Conditions: This certificate is issued based upon the following tests and upon information provided by the manufacturer. The NT series of Weighing/Load Receiving Elements (NTEP Certificate of Conformance Number 17-067) were evaluated using indicators listed in NTEP CC Number 17-057 (CPB9, CWBx, CWBRx, SPB9, SWBx, SWBRx). The full set of testing was performed which included a series of increasing and decreasing load, eccentricity, discrimination, voltage, environmental and permanence tests. Test data was reviewed to ensure all required testing had been performed on the separate main elements of the scale. No additional tests were deemed necessary for the NTP, NTW and NTC Series.

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.



Gravity Measurement, Inc.
Computing Scale / NTP, NTW & NTC Series

Information Reviewed By: J. Truex (NCWM)

Examples of Device:



Wire Security Seals



Paper Security Seal



NTW (with CWB7 Indicator)



NTW (with SWB7 Indicator)