NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Weighing/Load Receiving Element
Platform, Load Cell, Electronic
Model: TNxyyyy--zzkg Series
n_{max}: 3000
e_{min}: see below
Capacity: 15 kg to 300 kg
Platform: see below
Accuracy Class: III

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Standard Features and Options

Model	Capacity	e_{min}	Platter size
TNx3030-15kg	15 kg	0.005 kg	30 cm x 30 cm
TNx3030-30kg	30 kg	0.01 kg	30 cm x 30 cm
TNx3046-30kg			30 cm x 46 cm
TNx3030-60kg	60 kg	0.02 kg	30 cm x 30 cm
TNx3046-60kg			30 cm x 46 cm
TNx4050-60kg			40 cm x 50 cm
TNx4646-60kg			46 cm x 46 cm
TNx4660-60kg			46 cm x 60 cm
TNx3046-150kg	150 kg	0.05 kg	30 cm x 46 cm
TNx4050-150kg			40 cm x 50 cm
TNx4646-150kg			46 cm x 46 cm
TNx4660-150kg			46 cm x 60 cm
TNx6060-150kg			60 cm x 60 cm
TNx4050-300kg	300 kg	0.1 kg	40 cm x 50 cm
TNx4646-300kg			46 cm x 46 cm
TNx4660-300kg			46 cm x 60 cm
TNx6060-300kg			60 cm x 60 cm

Explanation of model designations: TNxyyyy-zzzkg; x denotes the material where S indicates Stainless Steel and blank indicates Mild Steel; yyyy denotes the platter size in cm (ex-3046 indicates 30 cm x 46 cm); zzz denotes the capacity of the device in kg.

Load Cells Used: Anyload 108JA Series (NTEP Certificate of Conformance No. 12-036) or equivalent NTEP certified load cells.

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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Committee Chair, National Type Evaluation Program Committee
Issued: November 26, 2014

Anyload LLC

Weighing/Load Receiving Element / TNxyyyy-zzkg Series

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

Identification: An identification plate is riveted to toe side of the device.

Sealing: There are no sealing parameters for the weighing/load receiving element. The unit is sealed at the indicator according to the manufacturers instructions for the particular indicator used.

Test Conditions: These devices were submitted to and evaluated by Measurement Canada under the U.S. and Canadian MRA. The technical data was reviewed by the New York NTEP laboratory for compliance with Publication 14 and NIST Handbook 44 requirements. The emphasis of the evaluation was on the design, performance, and marking requirements of the weighing/load receiving element. Three units were submitted for this evaluation: a TNS3030-15kg (15 kg x 0.005 kg); a TNS6060-150kg (150 kg x 0.05 kg); and a TNS6060-300kg (300 kg x 0.1 kg). The weighing/load receiving elements were interfaced with Mettler-Toledo model IND780 indicators (NTEP CC 06-017A1). Several increasing/decreasing and shift tests were conducted. The units were tested over a temperature range from -10 °C to 40 °C (14 °F to 104 °F) and were tested for permanence by having half capacity loads applied 100 000 times with increasing/decreasing load tests done after every 25 000 applications.

Evaluated By: P. Vinten (MC), E. Morabito (NY)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices,* 2014 Edition. *NCWM Publication 14 Measuring Devices,* 2014 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: