NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Non-Computing Scale
Digital Electronic
Model: PxyNz Series
n_{max}: see table on page 2 and 3
e_{min}: see table on page 2 and 3
Accuracy Class: II and III

***Submitted By: Contact Info. Updated November 2020**
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Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Semi-Automatic Tare (Push Button)
- Programmable Tare
- Automatic Tare
- AC / DC External Power Supply
- Gross / Net Display
- Liquid Crystal Display
- Remote Customer Display
- Units: Kilogram (kg), Gram (g), Milligram (mg), Pound (lb), Ounce (oz) Ounce Troy (oz t), Carat (ct), Grain (grain), Pennyweight (dwt)
- RS-232 Communication Port
- Optional USB Communication Port (PJXyNz only)
- Remote Calibration
- Linearity Calibration Points
- Optional Internal Calibration
- Bracketing of the display is used to identify "d" when it is not equal to "e" (d<e)
- "The counting feature is not legal for trade." is labeled on the front of the scale.

Load Cells Used: See section after the model table on the third page, all load cells were **Non-NTEP** certified:

Temperature Range: Class II: 10 °C to 30 °C (50 °F to 86 °F); Class III: 10 °C to 40 °C (50 °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.

Ivan Hankins
Chairman, NCWM, Inc.

Hal Prince
Committee Chair, NTEP Committee
Issued: September 3, 2021

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Ohaus Corporation
PxyNz Series / Non-Computing Scale

Model	Capacity	e	d	n_{max}	Class	Platform
PJX322N PJX322N/E PR322N PR322N/E	320 g	0.01 g	0.01 g	32 000	II	12 cm
PR322NUS/E	320 g	0.01 g	0.01 g	32 000	II	14.5 cm
PJX323N PJX323N/E PR323N PR323N/E	320 g	0.01 g	0.001 g or 0.01 g	32 000	II	12 cm
PR323NUS/E	320 g	0.01 g	0.001 g or 0.01 g	32 000	II	14.5 cm
PJX522N PJX522N/E PR522N PR522N/E	520 g	0.01 g	0.01 g	52 000	II	12 cm
PR522NUS/E	520 g	0.01 g	0.01 g	52 000	II	14.5 cm
PJX523N PJX523N/E PR523N PR523N/E	520 g	0.01 g	0.001 g or 0.01 g	52 000	II	12 cm
PR523NUS/E	520 g	0.01 g	0.001 g or 0.01 g	52 000	II	14.5 cm
PJX622N PJX622N/E PR622N PR622N/E	620 g	0.01 g	0.01 g	62 000	II	12 cm
PR622NUS/E	620 g	0.01 g	0.01 g	62 000	II	14.5 cm
PJX623N PJX623N/E PR623N PR623N/E	620 g	0.01 g	0.001 g or 0.01 g	62 000	II	12 cm
PR623NUS/E	620 g	0.01 g	0.001 g or 0.01 g	62 000	II	14.5 cm
PJX822N PJX822N/E PR822N PR822N/E	820 g	0.1 g	0.1 g	8 200	III	18 cm
PJX2201N PJX2201N/E PR2201N PR2201N/E	2200 g	0.1 g	0.1 g	22 000	II	18 cm
PJX2202N PJX2202N/E PR2202N PR2202N/E	2200 g	0.1 g	0.01 g or 0.1 g	22 000	II	18 cm
PJX4201N PJX4201N/E PR4201N PR4201N/E	4200 g	0.1 g	0.1 g	42 000	II	18 cm

Ohaus Corporation
PxyNz Series / Non-Computing Scale

Model	Capacity	e	d	n_{max}	Class	Platform
PJX4202N PJX4202N/E PR4202N PR4202N/E	4200 g	0.1 g	0.01 g or 0.1 g	42 000	II	18 cm
PJX5201N PJX5201N/E PR5201N PR5201N/E	5200 g	0.1 g	0.1 g	52 000	II	18 cm
PJX5202N PJX5202N/E PR5202N PR5202N/E	5200 g	0.1 g	0.01 g or 0.1 g	52 000	II	18 cm
PJX6201N PJX6201N/E PR6201N PR6201N/E	6200 g	1 g	1 g	6 200	III	18 cm
PJX6202N PJX6202N/E PR6202N PR6202N/E	6200 g	0.1 g	0.01 g or 0.1 g	62 000	II	18 cm
PJX8201N PJX8201N/E PR8201N PR8201N/E	8200 g	1 g	1 g	8 200	III	18 cm

Meaning of the codes used in model numbers and other information.

For models PxyNz:

P: Pioneer Scale
x: Sub-type (JX = jewelry, R = general purpose)
y: Capacity code (3-4 numeric characters)
N: MC and NTEP approved
z: Option Code (blank = internal or external calibration, /E = external calibration only, US/E = no draft shield, external calibration only)

Load cells Used:

- Mettler Toledo ODNOI0600G3 620 g
- Mettler Toledo ODNON0600G3 620g
- Mettler Toledo OSOAI2200G2 2200 g
- Mettler Toledo OSOAN2200G2 2200 g
- Mettler Toledo ODNOI3000G2 3200 g
- Mettler Toledo ODNON3000G2 3200 g
- Mettler Toledo ODNOI5000G2 5200 g
- Mettler Toledo ODNON5000G2 5200
- Mettler Toledo ODNON6000G2 6200 g
- Mettler Toledo ODNOI6000G2 6200 g
- Mettler Toledo OSOAI8200G1 8200 g
- Mettler Toledo OSOAN8200G1 8200 g
- Mettler Toledo OSOAN12000G1 12000 g
- Mettler Toledo OSOAI12000G1 12000 g

Application: For use in general purpose and retail jewelry/precious metal weighing applications.

Identification: The required markings are located on a label affixed to the top rear (PJXyNz) or right side (PRyNz) of the device.

Sealing: Metrological parameters cannot be adjusted when the security switch is enabled and the “LFT” (Legal for Trade) setting, and Calibration lockout setting are set to “On” in the menu. This switch is protected by a wire seal and cover at the back or bottom of the device. To verify that the device is sealed against changes to metrological parameters, turn the device off and back on. If the security switch and LFT setting are set correctly, the display will show "LFT on" during power up.

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Test Conditions: This certificate supersedes Certificate of Conformance Number 18-110A2 and was issued to add the models PJX6202N, PJX6202N/E, PR6202N and PR6202N/E add additional load cell options and to make some models have the selectable value of e=d or e=10d. Three models were submitted a PJX2202N 2200 g x 0.1 g, PJX6202N 6200 g x 0.1 g, PJX8201N 8200 g x 1 g. The emphasis of the evaluation was on the operation and compliance with influence factors. Several increasing/decreasing load and eccentricity tests were conducted. The devices were tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F) for the class II and 10 °C to 40 °C (50 °F to 104 °F) for the class III. A load of approximately one-half capacity was applied to the scales over 100 000 times with the scale being tested periodically during this time. Previous test conditions are listed below for reference.

Certificate of Conformance Number 18-110A2: This certificate supersedes Certificate of Conformance Number 18-110A1 and was issued to add the models PR322NUS/E, PR323NUS/E, PR522NUS/E, PR523NUS/E, PR622NUS/E, PR623NUS/E. Several increasing/decreasing load tests and shift tests were conducted on a model PR623NUS/E to verify that the device functioned correctly. No other tests were deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 18-110A1: This certificate supersedes Certificate of Conformance Number 18-110 and was issued to add the models where e=d instead of e = 10 d. That is the only metrological difference in the devices. Previous test conditions are listed below for reference.

Certificate of Conformance Number 18-110: Six scales were submitted for evaluation as follows: PJX623N, 620 g x 0.01 g; PJX5202N, 5200 g x 0.1 g; PJX8201N/E, 8201 g x 1 g; PR623N, 620 g x 0.01 g; PR5202N, 5200 g x 0.1 g; PR8201N/E, 8200 g x 1 g. 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 device design, operation, marking requirements and compliance with influence factors. Several increasing/decreasing load and shift tests were conducted. The device was tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F) for the Class II devices and 10 °C to 40 °C (50 °F to 104 °F) for the Class III devices. A load of approximately one-half capacity was applied to the scales at least 100,000 times with the scale being tested periodically during this time. Additionally, tests were conducted using power supplies of 85 VAC and 264 VAC, as well as zero tests, zone of uncertainty, and motion detection requirements.

Evaluated By: S. Mousaw (MC), E. Morabito (NY) 18-110, J. Gibson (OH) 18-110A2, 18-110A3

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14 Weighing Devices*, 2021 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) 18-110, 18-110A1; D. Flocken (NCWM) 18-110A2, 18-110A3

Examples of Device:

Ohaus Corporation
PxyNz Series / Non-Computing Scale

Model: Px323Nz, Px523Nz, Px623Nz

Model: Px822Nz, Px2201Nz, Px2202Nz, Px4201Nz, Px4202Nz, Px5202Nz, Px6201Nz, and Px8201Nz

Model: PRyNUS/E

PJXyNz sealing

PRyNz sealing