

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 e_{min}: see table on page 2 Accuracy Class: II and III

Submitted By:

Ohaus Corporation

7 Campus Drive, Suite 310 Parsippany, NJ 07054 Tel: 973-377-9000 ext. 7032

Fax: 973-944-7177 Contact: Robert Hansen Email: <u>bob.hansen@ohaus.com</u> Web site: www.ohaus.com

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 (All Non-NTEP):

- Mettler Toledo ODNOI0500G3 620 g
- Mettler Toledo ODNON0500G3 620g
- Mettler Toledo ODNOI3000G2 3200 g
- Mettler Toledo ODNON3000G2 3200 g

- Mettler Toledo ODNOI5000G2 5200 g
- Mettler Toledo ODNON5000G2 5200 g
- Mettler Toledo OSOAI8200G1 8200 g
- Mettler Toledo OSOAN8200G1 8200 g

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.

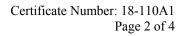
Brett Gurney

Chairman, NCWM, Inc.

James Cassidy
Committee Chair, NTEP Committee
Issued: December 18, 2018

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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PxyNz Series / Non-Computing Scale

			001			
Model	Capacity	e	d	n _{max}	Class	Platform
PJX322N						
PJX322N/E	320 g	0.01 g	0.01 g	32 000	II	12 cm
PR322N	320 g	0.01 g	0.01 g	32 000	11	12 (111
PR322N/E						
PJX323N						
PJX323N/E		0.01	2 224	22 000		4.4
PR323N	320 g	0.01 g	0.001 g	32 000	II	12 cm
PR323N/E						
PJX522N						
PJX522N/E						
PR522N	520 g	0.01 g	0.01 g	52 000	II	12 cm
PR522N/E						
PJX523N						
PJX523N/E	520 g	0.01 g	0.001 g	52 000	II	12 cm
PR523N						
PR523N/E						
PJX622N						
PJX622N/E	620 g	0.01 g	0.01 g	62 000	II	12 cm
PR622N	020 g	0.01 g	0.01 g	02 000	П	12 (111
PR622N/E						
PJX623N						
PJX623N/E	(20	0.01	0.001	62 000		10
PR623N	620 g	0.01 g	0.001 g	62 000	II	12 cm
PR623N/E						
PJX822N						
PJX822N/E						
PR822N	820 g	0.1 g	0.1 g	8 200	III	18 cm
PR822N/E						
PJX2201N						
PJX2201N/E	2200 g	0.1 g	0.1 g	22 000	II	18 cm
PR2201N		. 8				
PR2201N/E						
PJX2202N						
PJX2202N/E	2200 g	0.1 g	0.01 g	22 000	II	18 cm
PR2202N	2200 g	0.1 g	0.01 g	22 000	11	10 0111
PR2202N/E						
PJX4201N						
PJX4201N/E	4200 -	0.1 -	0.1 -	42,000	11	10
PR4201N	4200 g	0.1 g	0.1 g	42 000	II	18 cm
PR4201N/E						
PJX4202N						
PJX4202N/E	1000	0.1				10
PR4202N	4200 g	0.1 g	0.01 g	42 000	II	18 cm
PR4202N/E						
PJX5201N						
PJX5201N PJX5201N/E						
PR5201N/E PR5201N	5200 g	0.1 g	0.1 g	52 000	II	18 cm
	_					
PR5201N/E			 			
PJX5202N						
PJX5202N/E	5200 g	0.1 g	0.01 g	52 000	II	18 cm
PR5202N	22008	, b	5	22 000		10 0111
PR5202N/E			<u> </u>			





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PxyNz Series / Non-Computing Scale

Model	Capacity	e	d	n _{max}	Class	Platform
PJX6201N PJX6201N/E PR6201N PR6201N/E	6200 g	1 g	1 g	6 200	III	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)

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

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

<u>Sealing</u>: 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.

<u>Test Conditions</u>: 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.

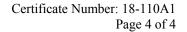
Certificate of Conformance Number 18-110: Six scales were submitted for evaluation as follows: PJX623N, 620 g x 0.01 g; PJX5202N, 5200 g x 0.1 g; PJX8201N/E, 8201 g x 1 g; PR623N, 620 g x 0.01 g; PR5202N, 5200 g x 0.1 g; PR8201N/E, 8200 g x 1 g. These devices were submitted to and evaluated by Measurement 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

<u>Type Evaluation Criteria Used:</u> 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) 18-110, 18-110A1







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PxyNz Series / Non-Computing Scale

Examples of Device:



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



Model: Px323Nz, Px523Nz, Px623Nz



PJXyNz



PRyNz