



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Non-Computing Scale
Digital Electronic, Jeweler's Precision and Analytic
Model: PL-E and JL-GE Series
 n_{\max} : 15 200
 e_{\min} : 0.1 g
Accuracy Class: II

Submitted By:

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Standard Features and Options

- Semi-automatic (push-button) Zero
- Semi-automatic (push-button) Tare
- Initial Zero Setting Mechanism (IZSM)
- Automatic Zero Tracking (AZT)
- Liquid Crystal Display (LCD)
- AC/DC Adapter
- RS232 Communication Port
- Remote Printer Capability
- Units: kg, g, mg, ct, lb, oz, ozt, dwt, GN display capability, will convert between any 2 listed units
- Platter Size: 160 mm diameter

Temperature Range: 10 °C to 30 °C (50 °F to 86 °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
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Mettler-Toledo, LLC
Non-Computing Scale / PL-E and JL-GE Series

Application: General purpose Class II weighing applications which includes analytical, precision, jewelry and precious metals.

Identification: The required information appears on an adhesive label applied to the side of the scale.

Model	Capacity	d	e	Accuracy Class	n _{max}
PL602E	620 g	0.01 g	0.1 g	II	6200
PL1502E	1520 g	0.01 g	0.1 g	II	15200
PL6001E	6200 g	0.1 g	1 g	II	6200
PL8001E	8200 g	0.1 g	1 g	II	8200
JL602GE	620 g	0.01 g	0.1 g	II	6200
JL1502GE	1520 g	0.01 g	0.1 g	II	15200
JL6001GE	6200 g	0.1 g	1 g	II	6200

Sealing: The scale will be sealed with a self-destructive seal and plug over the opening on the back of the instrument to prevent access to the calibration switch. Additionally a physical wire or self-destructive paper seal is applied to seal the top and bottom enclosure preventing access to the calibration switch. See sealing photos on last page.

Test Conditions: The emphasis of the evaluation was on device design, marking, performance, and compliance with influence factor requirements. A model PL602E (620 g x 0.1 g), a model PL1502E (1520 g x 0.1 g) and a model PL8001E (8200 g x 1 g) were submitted for evaluation. Several increasing/decreasing and shift tests were performed. The scales were tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F). A load of approximately one-half capacity was applied to the scale over 100 000 times. The scale was tested periodically over this time. Voltage variation tests were also performed using 100 VAC, 240 VAC and 6 VDC.

Evaluated By: J. Morrison (OH), J. Gibson (OH)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14 Weighing 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)

Example of Devices:

