



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Digital Load Cell Electronic
Models: PBD659-xyyy
 n_{max} : 10 000 (See below)
 e_{min} : 0.001 lb (0.0005 kg) (See below)
Capacity: 10 lb to 1000 lb (5 kg to 500 kg) (See below)
Accuracy Class: III

Submitted By:

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Standard Features and Options

Where xx = platter size

Where yyy = capacity

- Platter: Stainless Steel (closed design)
- Base Material: Welded Tubular Stainless Steel
- Platform: 9" x 9" to 24" x 32"

Max lb (kg)	e_{min} lb (kg)	n_{max}	Dimension inch x inch
10 (5)	0.001 (0.0005)	10 000	9 x 9 or 9.5 x 12
20 (10)	0.002 (0.001)	10 000	9 x 9 or 9.5 x 12
50 (20)	0.005 (0.002)	10 000	12 x 12, 12 x 16 or 16 x 20
100 (50)	0.01 (0.005)	10 000	12 x 12, 12 x 16, 16 x 20, 20 x 25 or 24 x 32
200 (100)	0.02 (0.01)	10 000	16 x 20, 20 x 25 or 24 x 32
500 (200)	0.05 (0.02)	10 000	20 x 25 or 24 x 32
1000 (500)	0.1 (0.05)	10 000	24 x 32

Load Cells Used:

- Mettler Toledo Model SLP84xD (CC: 21-014) or NTEP certified and compatible

Options:

- Wall or Column Mounting of Indicator
- Stainless Steel Mounting Stand
- Open Platter Design

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.

Mahesh Albuquerque
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Mettler-Toledo, LLC

Weighing/Load Receiving Element / PBD659-xyyyy

Application: For use in general purpose weighing applications when interfaced with a NTEP certified and compatible indicating element.

Identification: The required information is on an adhesive badge located under the scale platter.

Sealing: The weighing/load receiving element has no metrological functions calibration and configuration of the scale are done through the indicator.

Test Conditions: This Certificate supersedes Certificate of Conformance 21-088 and is issued to include open platter design in the Standard Features and Options box. A model PBD659-xyyyy 20 lb x 0.002 lb (10 kg x 0.001 kg) was submitted. Multiple increasing/decreasing and eccentricity tests were performed. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance 21-088: The emphasis of the evaluation was on device design, marking, performance, and compliance with influence factor requirements. Model PBD659, 10 lb x 0.001 lb (5 kg x 0.0005 kg), 100 lb x 0.01 lb (50 kg x 0.005 kg) and 1000 lb x 0.01 lb (500 kg x 0.05 kg) weighing/load receiving elements were interfaced with Mettler Toledo ICS series indicator (Certificate of Conformance Number 10-086) and submitted for evaluation. Several increasing/decreasing load and shift tests were performed. The devices were tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). A load of approximately one-half capacity was applied to the scale over 100 000 times. The scales were tested periodically over this time.

Evaluated By: J. Gibson (OH) 21-088, 21-088A1

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: D. Flocken (NCWM) 21-088, 21-088A1

Examples of Device:

