



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Load Cell Electronic
Models: PBD655
 n_{max} : 10 000
 e_{min} : 0.001 lb (0.0005 kg)
Capacity: 10 lb to 500 lb (5 kg to 300 kg)
Accuracy Class: III

Submitted By:

Mettler-Toledo, LLC
1150 Dearborn Drive
Worthington, OH 43085
Tel: 614-438-4387
Fax: 614-438-4355
Contact: Scott Davidson
Email: scott.davidson@mt.com
Web site: www.mt.com

Standard Features and Options

- Platter: Stainless Steel
- Base Material: Welded and Formed Carbon Steel
- Platform: 9.5" x 12" to 24" x 32"

Load Cells Used:

- Mettler-Toledo Model 0785 (non-NTEP) - 10 to 100 kg capacity
- Mettler-Toledo Model 0795 (non-NTEP) - 100 to 300 kg capacity
- Mettler-Toledo Model 0805 (non-NTEP) - 100 to 750 kg capacity
- Mettler Toledo Model SLP33xD (CC 12-060) or other NTEP certified and compatible – 22 kg to 100 kg

Options:

- Wall or Column Mounting of Indicator
- Stainless Steel Mounting Stand
- Roller top platter
- Transfer ball platter

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.

John Gaccione
Chairman, NCWM, Inc.

Stephen Benjamin
Committee Chair, National Type Evaluation Program Committee
Issued: August 6, 2013

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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Mettler-Toledo, LLC

Weighing/Load Receiving Element / PBD655

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 that require the use of a security seal. Calibration and configuration of the scale are done through the indicator.

Test Conditions: This Certificate supersedes Certificate of Conformance Number 12-052 and is issued to include NTEP certified load cells (CC 12-060) for capacities 10 lb (5 kg) to 100 lb (50 kg). Model PBD655, 10 lb x 0.001 lb (5 kg x 0.0005 kg) and 100 lb x 0.01 lb (50 kg x 0.005 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). The devices were tested for suitability of the level indicator. A load of approximately 1/2 capacity was applied to the scale over 100 000 times. Tests were conducted periodically over this time. After the permanence tests were completed, the shift test, discrimination and zone of uncertainty test were repeated. Previous test conditions are listed below for reference.

Certificate of Conformance Number 12-052: The emphasis of the evaluation was on device design, marking, performance, and compliance with influence factor requirements. Model PBD655, 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 500 lb x 0.05 lb (300 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). No permanence testing was deemed necessary since the identical load cell, frame and platters passed permanence testing under Certificate of Conformance Number 02-081.

Evaluated By: J. Morrison (OH) 12-052, T. Buck (OH) 12-052A1

Type Evaluation Criteria Used: *NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices*, 2013 Edition. *NCWM, Publication 14: Weighing Devices*, 2013 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) 12-052, 12-052A1

Examples of Device:

