



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Weighing/Load Receiving Element  
Load Cell Digital Electronic  
Models: PBD769  
 $n_{max}$ : 3000 to 7500 (See table page 2)  
 $e_{min}$ : 0.005 lb / 2 g (See table page 2)  
Capacity: 20 to 600 lb / 15 to 300 kg (See table page 2)  
Accuracy Class: III

**Submitted By:**

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**Standard Features and Options**

- Platter: Stainless Steel
- Base Material: Welded and Formed Stainless Steel

**Load Cells Used:**

- Mettler Toledo Model SLP33xD (NTEP CC: 12-060) or Compatible and NTEP Certified

**Indicator Used:**

- Mettler Toledo Model ICS (NTEP CC: 10-086) or Compatible and NTEP Certified

**Options:**

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

Temperature Range: 0 °C to 40 °C (32 °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.

James Cassidy

Chairman, NCWM, Inc.

Kristin Macey

Chairman, National Type Evaluation Program Committee

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**Mettler-Toledo, LLC**

Weighing/Load Receiving Element / PBD769

**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 on the side of the frame of the scale.

**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.

Max lb (kg)	$e_{min}$ lb (g)	$n_{max}$	Dimension mm x mm
30 lb (15 kg)	0.005 lb (2 g)	6000 / 7500	280 x 350
60 lb (30 kg)	0.01 lb (5 g)	6000	280 x 350
120 (60 kg)	0.02 lb (10 g)	6000	400 x 500
240 (120 kg)	0.05 lb (20 g)	4800 / 6000	400 x 500
300 (150 kg)	0.05 lb (20 g)	6000 / 7500	600 x 800
600 (300 kg)	0.1 lb (50 g)	6000	600 x 800
6 (3 kg)	0.002 lb (1 g)	3000	280 x 350
15 (6 kg)	0.005 lb (2 g)		
30 (15 kg)	0.01 lb (5 g)		
15 (6 kg)	0.005 lb (2 g)	3000	280 x 350
30 (15 kg)	0.01 lb (5 g)		
60 (30 kg)	0.02 lb (10 g)		
30 (15 kg)	0.01 lb (5 g)	3000	400 x 500
60 (30 kg)	0.02 lb (10 g)		
120 (60 kg)	0.05 lb (20 g)		
60 (30 kg)	0.02 lb (10 g)	3000	400 x 500
150 (60 kg)	0.05 lb (20 g)		
240 (120 kg)	0.1 lb (50 g)		
60 (30 kg)	0.02 lb (10 g)	3000	600 x 800
150 (60 kg)	0.05 lb (20 g)		
300 (150 kg)	0.1 lb (50 g)		
150 (60 kg)	0.05 lb (20 g)	3000	600 x 800
300 (150 kg)	0.1 lb (50 g)		
600 (300 kg)	0.2 lb (100 g)		

**Test Conditions:** The emphasis of the evaluation was on device design, marking, performance, and compliance with influence factor requirements. A Model PBD769, 30 lb x 0.005 lb (15 kg x 2 g), 240 lb x 0.05 lb (120 kg x 20 g) and 600 lb x 0.1 lb (300 kg 50 g) 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 0 °C to 40 °C (32 °F to 104 °F). 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.

**Evaluated By:** M. Kelley (OH)

**Type Evaluation Criteria Used:** 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)



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Weighing/Load Receiving Element / PBD769

**Examples of Device:**

