



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Weighing/Load Receiving Element
Load Cell Electronic
Model: PBK98x, PFK98y Series
 n_{\max} : 10 000 Class III / 61 000 Class II
 e_{\min} : 0.00002 lb (0.01 g)
Capacity: 1.2 lb to 600 lb (610 g to 300 kg)

Submitted By:

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Standard Features and Options

- Platter: Stainless Steel
- Base Material: x = 7 mild steel, x = 9 Stainless Steel
y = 8 mild steel, y = 9 Stainless Steel

Load Cells Used:

- Mettler-Toledo Monoblock (non-NTEP)

Temperature Range: Class II: 10 °C to 30 °C (50 °F to 86 °F) model PBK98x - XS06 only
Class II: 0 °C to 40 °C (32 °F to 104 °F) Class III: -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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Committee Chair, National Type Evaluation Program Committee
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Mettler-Toledo, LLC
Weighing/Load Receiving Element / PBK98x, PFK98y Series

Application: For use in general purpose weighing applications when interfaced with an 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 14-085 and is issued to include additional capacity. A model PBK98x (610 g x 0.01 g) was submitted for evaluation. Several increasing/decreasing load and shift tests were performed. A discrimination (zone of uncertainty) test and suitability of level indicator test was performed. The device was tested over a temperature range of 10 °C to 30 °C (50 °F to 86 °F). A load of approximately one-half scale capacity was applied to the device over 100 000 times. The device was tested periodically during the permanence test. Both shift and discrimination (zone of uncertainty) tests were repeated after the permanence test. The previous test conditions are listed below for reference.

Certificate of Conformance 14-085: The emphasis of the evaluation was on device design, marking, performance and compliance with influence factor requirements. A model PBK98x, 3 kg x 0.1 g, a model PBK98x 30 kg x 1 g and a model PFK98y 300 kg x 10 g load receiving/weighing elements were interfaced with Mettler Toledo ICS series indicators (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) for Class II and -10 °C to 40 °C (14 °F to 104 °F) for Class III. A load of approximately one-half capacity was applied over 100 000 times. The scales were tested periodically during this time.

Evaluated By: J. Morrison (OH) 14-085, 14-085A1

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14 Measuring 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) 14-085, 14-085A1

Examples of Device:

