



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: IND500x
 $n_{\max}$: 10 000 / 100 000
Accuracy Class: II / III / III L

Submitted By:

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Standard Features and Options**Standard Features:**

- Semi-Automatic (push-button) Zero Setting Mechanism (SAZSM)
- Semi-Automatic (push-button) Tare
- Initial Zero Setting Mechanism (IZSM)
- Communication Ports
 - Discrete I/O,
 - RS-232,
 - Ethernet
 - Current Loop
 - Fiber Optic Interface
 - 4-20 ma output
- AC Power Supply
- Analog or Digital scale inputs
- Multiple Range, Multi-Interval capability
- Available units: kg, g, lb, (t), ton, oz
- Keyboard tare
- Desk / Harsh or Panel Mount Enclosure

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.

Kevin Schnepf
Chair, NCWM, Inc.

Marc Paquette
Chair, NTEP Committee
Issued: August 14, 2025

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Mettler-Toledo, LLC
Indicating Element / IND500x

Application: General purpose indicating element for use with approved and compatible weighing/load receiving element.

Identification: The required information appears on a pressure sensitive self-destructive label on the housing of the indicator.

Sealing: The Desk / Harsh enclosure is sealed using a physical wire threaded through screw heads preventing access to the calibration configuration DIP switch.

The Panel Mount enclosure is sealed using a physical wire threaded through screw heads or a paper seal covering fix screw and sealing sleeve preventing access to the calibration configuration DIP switch.

Test Conditions: This Certificate supersedes Certificate of Conformance 22-039 and is issued to include Panel Mount enclosure. One Model IND500x was submitted for evaluation. The IND500x was interfaced to a load cell simulator to perform several increasing / decreasing tests. Temperature tests were performed over a range of -10 °C to 40 °C (14 °F to 104 °F). The IND500x was evaluated for proper sealing methods in accordance with Handbook 44. Previous test conditions are listed below for reference.

Certificate of Conformance 22-039: The emphasis of the evaluation was on device design, marking, operation, performance, and compliance with influence factors. Two Model IND500x indicating elements were submitted for evaluation. The IND500x indicator was interfaced to a model PBK989 digital weighing/load receiving element (Certificate of Conformance 14-085) to verify compliance with zero, zone of uncertainty, and motion detection requirements. Additionally, the IND500x was interfaced to a load cell simulator to perform several increasing / decreasing tests, warm-up test and power interruption test. Temperature tests were performed over a range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: B. Stone (OH), T. Buck (OH) 22-039; J. Coffey (OH) 22-039A1 (CN 11498)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2025 Edition. *NCWM Publication 14 Weighing Devices*, 2025 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) 22-039; J. Gibson (NCWM) 22-039A1 (CN 11498)



Mettler-Toledo, LLC
Indicating Element / IND500x

Examples of Device:



Sealing Method:

