



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: ACT350
 $n_{\max}$: 10 000
Accuracy Class: 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
- Intrinsic Safe Barrier model ISB
- RS232
- ProfiNet I/O
- ProfiBus DP
- EtherCat
- EtherNet IP
- AC/DC Power Supply (24 VDC Terminal Block)
- Analog or Digital scale inputs

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.

Kristin Macey
Chairman, NCWM, Inc.

Jerry Buendel
Committee Chair, National Type Evaluation Program Committee
Issued: November 28, 2016

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Mettler-Toledo, LLC
Indicating Element / ACT350

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

Identification: The required information appears on a label on the side of the indicator.

Sealing: The indicator is sealed using a self-destructive seal placed over the opening preventing access to the DIP switch and another self-destructive seal over the seam between the cover and housing. Access to metrological features will be denied when device is set to Type Approved and sealed.

Test Conditions: This Certificate supersedes Certificate of Conformance 16-036 and is issued to include digital scale input capability. A model ACT350 was submitted for evaluation. The ACT350 was interfaced to a digital load cell simulator to perform several increasing / decreasing tests and voltage variation test. No other testing was deemed necessary. The previous test conditions are listed below for reference.

Certificate of Conformance 16-036: The emphasis of the evaluation was on device design, marking, operation, performance, and compliance with influence factors. Three model ACT350 indicating elements (24 VDC terminal block input with an AC/DC power adapter) were submitted for evaluation. The ACT350 indicator was interfaced to a model PBA426 weighing/load receiving element (Certificate of Conformance 10-049) to verify compliance with zero, zone of uncertainty, and motion detection requirements. Additionally, the ACT350 was interfaced to a load cell simulator to perform several increasing / decreasing tests, warm-up test and power interrupt test. Temperature tests were performed over a range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: J. Morrison (OH) 16-036, 16-036A1

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2016 Edition. *NCWM Publication 14 Weighing Devices*, 2016 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) 16-036, 16-036A1

Examples of Device:

Sealing Method:

