



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance
for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: MV1
 n_{max} : 10 000
Accuracy Class: III

Submitted by:

Detecto Scale Company
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Standard Features and Options

- Semi-Automatic Tare (Push-Button)
- Semi-Automatic Zero (Push-Button)
- 99 Tare memories
- Gross/Tare/Net Display
- Automatic Zero Tracking (AZT)
- Motion Detection
- Unit Key
- lb/oz/kg/g Unit Capabilities
- LCD Display with LED backlight
- Time and Date
- USB and RS232 Interface
- Multi-Point Calibration Feature (Up to 3)
- Steel Enclosure
- Battery Operation with low battery indication and auto shutoff
- Sleep Mode at Gross Zero
- Input for Digital Height Rod (**Non-Legal for Trade**)

Options:

- Ethernet
- WIFI Wireless Interface
- AC/DC Power Supply

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.

Stephen Benjamin
Chairman, NCWM, Inc.

Kurt Floren
Committee Chair, National Type Evaluation Program Committee
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Detecto Scale Company
Indicating Element / MV1

Application: General purpose indicating element when connected to an approved and compatible weighing/load-receiving element.

Identification: The self-destructive identification label is located on the bottom of the enclosure.

Sealing: Access to the set-up/calibration button can be secured by threading a lead-wire seal through two drilled head screws on the side preventing access to the calibration switch.

Test Conditions: A Model MV1 digital weight indicator was submitted for this evaluation. The emphasis of the evaluation was on device design, operation, and compliance with influence factor requirements. The indicator was interfaced with a load cell simulator and then tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The indicator was interfaced with a load cell weighing element, Cardinal EB-150-LPAN (Certificate of Conformance number 03-031A1) and a printer. The device was tested for discrimination, power interruption, zero tests, and print format. Additionally, the device was tested with a supply voltage of 100VAC to 130 VAC and 10.8 VDC to 13.8 VDC.

Evaluated By: E.A. Payne, Jr (MD), Z. Tripoulas (MD)

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*, 2012 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)

Example(s) of Device:

