



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: V-xx Series
 n_{\max} : 10 000
Accuracy Class: III

***Submitted By: Contact Info. Updated October 2019**

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Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic Zero (Push Button)
- Semi-Automatic Tare (Push Button)
- DC Power (12 V)
- Liquid Crystal Display
- RS232 Communications
- Linearity Calibration Points

Model designations:

V-FS Stainless steel enclosure 2 in high display
V-BM ABS plastic enclosure 2 in high display
V-PS Stainless steel enclosure 1 in high display
V-TM ABS plastic enclosure 2 in high display

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.

James Cassidy
Chairman, NCWM, Inc.

Kristin Macey
Committee Chair, National Type Evaluation Program Committee
Issued: December 11, 2017

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**Intelligent Weighing Technology, Inc.**

Indicating Element / V-xx Series

Application: A general-purpose indicating element to be interfaced with an NTEP certified and compatible weighing element.

Identification: The required making information is located on the back of the device. Labels for capacity, division, CLC (concentrated load capacity; if required), and section capacity (if required) will be identified on an adhesive label. The label will self-destruct when removed.

Sealing: Stainless steel case (V-FS & V-PS) – wire seal threaded through bolt(s) on back of device preventing removal of nut. Plastic case (V-BM & V-TM) – wire seal through two tabs on back of device preventing the removal of plug that blocks access to screw.

Test Conditions: The models submitted for this evaluation were a V-FS and a V-BM. The emphasis of the evaluation was on device design, operation, and compliance with environmental factors. Both models were 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 devices were tested with 100 VAC and 130 VAC power supplies.

Evaluated By: E. Morabito (NY)

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2017 Edition. *NCWM Publication 14 Weighing Devices*, 2017 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)

Examples of Device:

V-PS



V-BM



V-FS



V-TM

**Methods of Sealing:**

Wire seal through bolt



Wire seal through tabs