



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: ZM2xx Series
 $n_{\max}$: 10 000
Accuracy Class: III / III L

Submitted By:

Avery Weigh-Tronix
1000 Armstrong Drive
Fairmont, MN 56031-1439
Tel: 507-238-4461
Fax: 507-238-8255
Contact: Kevin Detert
Email: kdetert@awtxglobal.com
Web site: www.averyweigh-tronix.com

Standard Features and Options

- Semi-automatic (push-button) Zero
- Automatic Zero Setting (AZT) Mechanism
- Semi-automatic (push-button) Tare
- Keyboard Tare
- Center of Zero Annunciator
- Gross/Net/Tare Display
- Weight Accumulation
- Alphanumeric Display
- LCD Display
- Unit Selection Key (lb, kg, g, oz, custom unit of measure)
- Category 2 Audit Trail
- 2 Event Counters (Configuration, Calibration)
- Variable Print Format
- RS232 Communication
- Ethernet
- DC Power (12-36VDC)
- AC Power (110/230VAC)
- Stainless Steel Enclosure
- ABS Enclosure
- Panel Mount Enclosure

Options:

WiFi

Software Version: 1.X.X.X or equivalent

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
Chairman, National Type Evaluation Program Committee
Issued: February 25, 2013

1135 M Street, Suite 110 / Lincoln, Nebraska 68508

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**Avery Weigh-Tronix**

Indicating Element / ZM2xx Series

Application: A general-purpose indicator to be interfaced with an approved compatible weighing element.

Identification: The required marking information is 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: Option 1: Wire security seal through two nuts on rear of unit. On the ZM201-PD2 plastic unit, it will secure a plastic/metal bracket over the connection of the load cell cable, preventing the housing from being opened; or Option 2: Paper seal placed across the enclosure seams on rear of device. Note: A physical security seal is not required.

Audit Counters:

To access the User menu, press and hold the “F1” until the word “PASS” is displayed. The display will change to show a password prompt. Using the “Tare” key to scroll up and the “Units” key to advance the cursor position, scroll in the number “111”. The “Zero” key is used as the Enter key to accept the password. Upon successful completion of the password, the display will show “USER”.

From the “USER” prompt, accessing the Configuration Audit counter:

Press the “Print” key to display the word “AUDIT”. Press the “Select” key to display the word “COUNTER”. Press the “Select” key to display the word “CONFIG”. Press the “Select” key again to display the actual configuration counter.

From the “USER” prompt, accessing the Calibration Audit counter:

Press the “Print” key to display the word “AUDIT”. Press the “Select” key to display the word “COUNTER”. Press the “Select” key to display the word “CONFIG”. Press the “Units” key to display the word “CALIB”. Press the “Select” key again to display the actual calibration counter.

Test Conditions: The models submitted for this evaluation were a ZM201 with a stainless steel enclosure, a ZM201 with an ABS enclosure, and a ZM205 with a stainless steel enclosure. The emphasis of the evaluation was on device design, operation, and compliance with environmental factors. All three models were interfaced with load cell simulators and then tested for accuracy over a temperature range of -10° C to +40° C (14° F to 114° F). The ZM201 indicator was interfaced with an Avery Weigh-Tronix BS 20 x 20 (NTEP Certificate of Conformance Number 88-104) load receiving element and a CP-13- printer with the wireless option enabled. The device was tested for discrimination, power interruption, zero tests, and print format. Additionally, tests were performed using 100 VAC and 130 VAC as well as 6.5 VDC and 39.6 VDC power supplies. The wireless printing features were tested for conformance.

Evaluated By: E. Morabito (NY)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2013. NCWM, Publication 14: Weighing Devices, 2012.

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);



Avery Weigh-Tronix
Indicating Element / ZM2xx Series

Examples of Device:



ZM201-SD2 (Stainless Steel)



ZM201-PD2 (ABS)



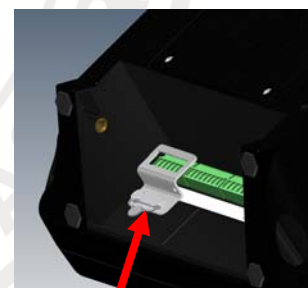
ZM201-SD0 (Signal Processor)



ZM201-SP2 (Panel Mount)



ZM205-SP2 and ZM205-SR2



**Location of hex screws
with holes for security seal for
ZM201-PD2
(Note: security seal not required)**