NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Model: 855
n_{max}: 10 000
Accuracy Class: III

***Submitted By: Contact Info. Updated December 2022**
Cardinal Scale Manufacturing Company
102 East Daugherty Street
Webb City, MO 64870
Tel: 417-673-4631 x 212
Fax: 417-673-2153
Contact: Thomas Schuller
Email: tschuller@cardet.com
Web site: www.cardet.com

Standard Features and Options

- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (push button) Zero Setting Mechanism (SAZSM)
- AC Power (100 VAC to 240 VAC)
- DC Power (12 VDC)
- Gross Weight Display
- Alphanumeric Display
- Liquid Crystal Display (LCD)
- Communication (USB, RS232, WiFi, Bluetooth)
- Units of Measure (lb & kg)
- Motion Detection
- Multi-interval Capability
- Semi-Automatic (push-button) Tare
- Remote Printer Capability
- Power Saving Feature (Automatic Shutoff)
- Category 1 audit trail

This device was evaluated under the National Type Evaluation Program and was found to comply with the applicable technical requirements of *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. *Editorial changes, not affecting the type or metrological content, corrected this certificate.

Ivan Hankins
Chair, NCWM, Inc.

Hal Prince
Chair, NTEP Committee
Issued: May 16, 2022

Cardinal Scale Manufacturing Co

Indicating Element / 855

Application: Non-Computing digital electronic indicating element for use with a NTEP certified and compatible weighing/load receiving element.

Identification: The capacity by division statement is marked on the front of the device adjacent to the weight display. All other required markings can be found on a label on the back of the indicator that will self-destruct if attempted to be removed.

Sealing: To access the Category 1 Audit trail: Press the Menu key; the display will show the "Settings Overview 1" screen. This screen shows both the Calibration (Cal=) and Configuration (Cfg=) audit trails. Press "Exit" on the menu to return to normal operation.

Test Conditions: The emphasis of the evaluation was on device design, marking, operation, performance, and compliance with influence factors. A Model 855 indicating element was submitted for evaluation. The 855 indicating element was interfaced to a Cardinal model EB-30 weighing/load receiving element (Certificate of Conformance 03-031) to verify compliance with zero, zone of uncertainty, and motion detection requirements. Additionally, the 855 was interfaced to a load cell simulator to perform several increasing / decreasing tests, warm-up test and power interrupt test. Voltage variation was performed at 85 VAC and 264 VAC and 6 VDC and 13.2 VDC. Temperature tests were performed over a range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: T. Buck, B. Stone (OH)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2022 Edition. *NCWM Publication 14: Weighing Devices*, 2022 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)

Example of Device: