



## NATIONAL TYPE EVALUATION PROGRAM

# *Certificate of Conformance*

*for Weighing and Measuring Devices*

**For:**

Indicating Element

Digital Electronic

Model: 120, 120 Plus and 120M Plus

 $n_{\max}$ : 10 000

Accuracy Class: III / III L

**Submitted By: Contact Info. Updated November 2022**

Rice Lake Weighing Systems

230 West Coleman Street

Rice Lake, WI 54868

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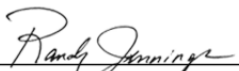
Contact: Brad Bowers

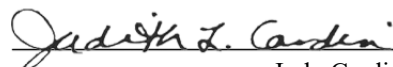
Email: [bbowers@rickelake.com](mailto:bbowers@rickelake.com)Web site: [www.ricelake.com](http://www.ricelake.com)**Standard Features and Options****Standard Features:**

- Semi-automatic Zero Setting Mechanism (SAZSM)
- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM) (120 Plus and 120M Plus)
- Battery Power (120 Plus; 120M Plus)
- Battery Saving Feature (120 Plus and 120M Plus)
- AC/DC Adapter
- LED Display (120)
- LCD Display (120 Plus and 120M Plus)
- Gross/Net Display (120; 120 Plus)
- Semi-automatic (push-button) Tare
- Multiple Tare Memories (120 Plus and 120M Plus)
- Keyboard Tare (120 Plus and 120M Plus)
- Body Mass Index (Not Evaluated) (120M Plus)
- Remote Printer Capability
- Unit Switching Capability (lb/kg or oz/g)
- RS 232 Connector
- 4-20 mA Loop (120 Plus and 120M Plus)

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.

  
Randy Jennings  
Chairman, NCWM, Inc.

  
Judith Cardin  
Chairman, National Type Evaluation Program Committee  
Issued: August 15, 2008

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## Rice Lake Weighing Systems

Indicating Element / 120, 120 Plus and 120M Plus

**Application:** A general purpose indicating element to be interfaced with an NTEP approved compatible weighing element.

**Identification:** The capacity by division statement and, where applicable, the CLC will appear on an adhesive label adjacent to the weight display. The other required information appears on an adhesive label that displays "VOID" when removed on the side of the indicator.

**Sealing:** A cover, on the left side of the bottom of the indicator held in place by a drilled head screw, covers and prevents undetected access to the calibration switch that must be depressed to enter the set-up and calibration mode. Once the indicator has entered the set-up or calibration, the device has to be turned off to get back to the weighing mode. A wire security seal can be threaded through a screw head and another drilled head screw that secures the cover of the indicator.

**Test Conditions:** This Certificate supersedes Certificate of Conformance Number 03-059 and is issued to add the models 120 Plus and 120M Plus and evaluate new features such as battery power, IZSM, multiple tare memories, keyboard tare, and LCD display. The Model 120 Plus was interfaced with a load cell simulator and the Model 120M Plus was interfaced with a Rice Lake weighing element Model BM1218-100 (Certificate of Conformance 95-072A2). An Epson printer model M119D was interfaced to both the 120 Plus and 120M Plus to verify printing requirements. Several increasing/decreasing load, discrimination, and checklist item tests were conducted. Additionally, tests were conducted using power supplies of 85 VAC and 264 VAC as well as at 3 VDC and 5 VDC. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 03-059:** The emphasis of the evaluation was on the device design, marking requirements, operation, and compliance with influence factor requirements. The Model 120 was interfaced with a load cell simulator and tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The indicator was interfaced with a Rice Lake weighing element Model BM1818-50 (Certificate of Conformance 95-075A1) and an Epson printer model M119D to verify compliance with zero, zone of uncertainty, motion detection and printing requirements. Additionally, tests were conducted using power supplies of 100 VAC and 130 VAC.

**Evaluated By:** A. McCoy (OH) 03-059; J. Morrison (OH) 03-059A1

**Type Evaluation Criteria Used:** NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2008. NCWM, Publication 14: Weighing Devices, 2008.

**Conclusion:** The results of the evaluation and information provided by the manufacturer indicate the device complies with applicable requirements.

**Information Reviewed By:** S. Patoray (NCWM), L. Bernetich (NCWM) 03-059, 03-059A1

**Example of Device:**



Model 120



Model 120 Plus



Model 120M Plus