



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: LaserLight3
 n_{max} : 10 000
Accuracy Class: III / III L

Submitted By:

Rice Lake Weighing Systems
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Standard Features and Options

- Semi-Automatic (push button) Zero Setting Mechanism
- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (Push Button) Tare
- Gross/Net Display
- Voltage: 85 VAC to 264 VAC
- Unit Switching (kg, g, lb, oz, tonne, ton)
- Remote Printer Capability
- Multiple Calibration Points (4)
- Alphanumeric Display
- Communication: RS232, RS485, Ethernet/ Wireless, 4-20 mA Loop, Wi-Fi, Bluetooth, Parallel Communication
- Radio Communication ConnexLink 4490 Wireless Radio System
- Display: 128 x 32-pixel LED Screen with Multi Color Capability
- Housing Material: Painted Mild Steel with flip down front Door
- Category 2 sealing method (Wire Security Seal and Audit trail)

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.

Mahesh Albuquerque
Chair, NCWM, Inc.

Ivan Hankins
Chair, NTEP Committee
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Rice Lake Weighing Systems LaserLight3 Indicating Element

Application: General purpose indicating element for use with any NTEP certified and compatible weighing element.

Identification: The required information appears on a self-destructive label on the side of the indicator. The capacity x division statement is on a label centered on the front door bottom.

Sealing: The LaserLight3 uses a category 2 sealing method consisting of a wire security seal threaded through two drilled holes on top of front door and thru the lug when the door is open. This prevents access to the calibration and configuration parameters jumper. The audit Trail can be accessed by pressing “Menu” then, Audit will be highlighted in yellow. Press “Tare or enter” press “Print or Right Arrow” to Calibr. It will be highlighted in yellow. Press “Tare or Enter” the Cal factor will appear at bottom left corner of screen. To back out press “Zero” one time and Calibr. will be highlighted in yellow, press “Print or Right Arrow” to Config. will be highlighted in yellow. Press “Tare or Enter” and Configure factor will show up in bottom left corner. To escape press “Menu” twice.

Test Conditions: The emphasis of the evaluation was on the device design, operation, marking requirements, performance, and compliance with influence factors. The indicator was interfaced with a Rice Lake Model: RL2100 load receiving element to verify compliance with zero, zone of uncertainty and motion detection requirements. A load cell simulator was interfaced to the device, several increasing/decreasing tests were performed in kg, lb, ton, tonne, oz. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Tests were conducted using 85 VAC and 264 VAC. Several tests were completed using Laird ConnexLink 4490 Model: CL4490-1000 Wireless radio system.

Evaluated By: B. Stone (OH)

Type Evaluation Criteria Used: *NIST 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)

Examples of Device: LaserLight3

