



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: W100 / W200 / WDOS / WDESK / WINOX/ WTAB /
W200BOX / W200BOXEC / WLIGHT
 n_{max} : 10 000
Accuracy Class: III / III L

Submitted By: Contact Info. Updated October 2022

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Standard Features and Options

- Initial Zero Setting Mechanism (IZSM)
- Semi-Automatic (Push Button) Tare
- Keyboard Tare
- Automatic Zero Tracking (AZT)
- Internal or External printer
- Multiple Range or Multi- Interval
- Units Available: kg, g, lb
- Din Rail Mount
- Power Saving (Sleep Mode)
- Gravity Compensation
- Alibi Memory
- Semi-Automatic (Push Button) Zero Setting Mechanism (SAZSM)
- Programable Tare
- Multiple Tare Memories
- AC or DC voltage
- Plastic or stainless-steel enclosure
- Category 1 Audit Trail
- Display: LCD or LED
- Extended/high resolution
- Communications: Wireless, RS-232, USB, 4-20 mA loop, Ethernet, RS-485, Modbus, RTU, Profibus, Device Net, CANopen, Ethernet TCP/IP, Ethernet/IP, Modbus/TCP, Profinet IO, EtherCAT, POWERLINK, SERCOSLL, CC-link, CC-link IE and IO-link.

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.

Hal Prince
Chairman, NCWM, Inc.

Craig VanBuren
Chair, NTEP Committee
Issued: June 22, 2021

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**Laumas Elettronica SRL**

Indicating Element / W100 / W200 / WDOS / WDESK / WINOX / WTAB / W200BOX / W200BOXEC / WLIGHT

Application: General purpose indicating element for use with NTEP certified and compatible weighing/load receiving element.**Identification:** The required information appears on a pressure sensitive label on the side of the indicator displaying “Void” when removed.**Sealing:** All models use a category 1 Audit trail that is accessed by the following steps when in the weighing operation. PressPress the  +  together then **PASSUN** displays. Press  and “Info” displays. Press the  “OP2” displays. Use the  toscroll to “Legal” then press the  button and the display will scroll thru all legal parameters. The calibration counter is displayed as “ECCALP” and is the 4th item displayed followed by its current value. The configuration counter is displayed as ” ECCFGP” and is the 6th item displayed followed by its current value. To exit the audit trail and return to normal weighing operation after the indicatorhas finished scrolling thru all metrological parameters and has stopped on “Legal” press the  button two times and the indicating element will return to the weighing operation.**Test Conditions:** The emphasis of the evaluation was on device design, marking, operation, performance, and compliance with influence factors. Seven Laumas indicating elements (W100 / W200 / WDOS / WDESK / WINOX/ WTAB / W200BOX / W200BOXEC) were submitted for evaluation. The indicating elements were interfaced to a Laumas weighing/load receiving element to verify compliance with zero, zone of uncertainty, and motion detection requirements. Additionally, the models were interfaced to a load cell simulator to perform multiple increasing / decreasing tests. Warm-up and power interrupt tests were performed. Multi-Interval and Multiple Range was evaluated. Temperature tests were performed over a range of -10 °C to 40 °C (14 °F to 104 °F). Voltage variation testing was performed from 85 VAC to 264 VAC and 8.6 VDC to 26.4 VDC. All applicable portions of NCWM Publication 14 were evaluated.**Evaluated By:** J. Gibson (OH)**Type Evaluation Criteria Used:** *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2020 Edition. *NCWM Publication 14: Weighing Devices*, 2021 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(s) of Device:**



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Indicating Element / W100 / W200 / WDOS / WDESK / WINOX / WTAB / W200BOX / W200BOXEC / WLIGHT

W100



W200



W200BOX



W200BOXEC





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WDESK



WINOX



WTAB



WLIGHT





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