NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:
Indicating Element
Digital Electronic
Model: 880-XY*
n_{max}: 10 000
Accuracy Class: III / IIIL

Submitted By:
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Standard Features and Options

- Semi-Automatic (push-button) Zero (SAZSM)
- Automatic Zero Tracking (AZT)
- Initial Zero Setting Mechanism (IZSM)**
- Semi-Automatic (push-button) Tare
- Keyboard Tare
- Programmable Tare
- Annunciators***
- Printer Interface
- Unit Conversion (kg, g, lb, oz, Ton Metric, Short Ton)
- Multiple Range/Multi-Interval
- DC Power 9-36 V
- AC Power 100 – 240 V
- Variable print format
- Category 2 Audit Trail
- Alphanumeric Display
- LED Display
- Gross/Net Display
- Remote Calibration
- Wireless Communications/Bluetooth
- Local/Remote Operation
- Linearity Calibration Points (5)
- Configurable set points for Digital Outputs
- USB
- Ethernet TCP/IP
- RS-232/RS-485
- Password protection

*The model suffixes XY designate the following:
X = Enclosure Type; 1 = Panel Mount, 2 = Din Rail Mount, 3 = Universal
Y=Power Input: A = AC Voltage, D = DC
**Only During Calibration
***Center of Zero, Tare, Preset Tare, lb, kg, Gross, Net, In-motion, Multiple range / Multi-interval, Bluetooth

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.

Ronald Hayes
Chairman, NCWM, Inc.

John Gaccione
Committee Chair, National Type Evaluation Program Committee
Issued: January 30, 2015

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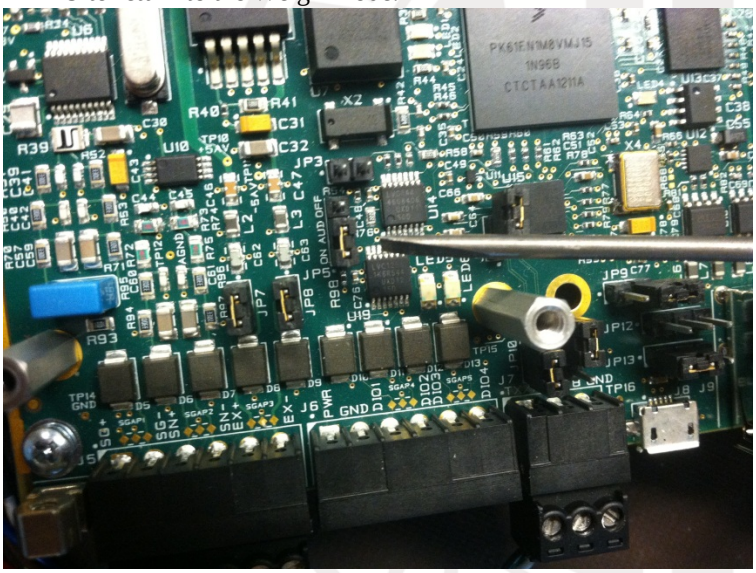
Rice Lake Weighing Systems, Inc.
Indicating Element / 880-XY

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

Identification: The identification badge is located on the side of the indicator.

Sealing: The indicator can be sealed with a lead and wire seal threaded through three drilled fillister head screws on the back and bottom of the indicator (depending on mounting type). By sealing the back of the indicator, you can prevent the jumper shown below from being moved. When the jumper is in the "ON" position; the indicator can be calibrated and configured with the menu button on the front of the indicator. When the jumper is moved to the "OFF" position, the indicator cannot be calibrated or configured through the menu button. Also, regardless of where the jumper is positioned, there is a push button calibration switch that can be accessed through a hole on the bottom of the indicator (880 universal) and on the back next to the Ethernet port on the panel and din mount type. This button can be pressed and the indicator can be calibrated. When the indicator is properly sealed, this hole should have a drilled fillister head screw covering the hole with a wire security seal through it running to the sealing screws on the back of the indicator forming a triangle with the lead and wire seal. Example given on page 4

This unit also includes a Category 2 Audit Trail. The device may still be sealed with a physical seal as described above or the inspector may record the audit trail event counter at the time of test. To view the Calibration and Configuration Counters press the [MENU] key, to display AUDIT then press the Down arrow to display the Legal Relevant Version number. Press the Right arrow key to display CALIB. Press the Down arrow to view the Calibration Counter. Press the Up arrow to display CALIB then press the Right arrow key to display CFG. Press the Down arrow to view the Configuration Counter. Press the Up arrow key to display CFG. Press MENU to return to the Weigh Mode.



Test Conditions: This Certificate supersedes Certificate of Conformance Number 13-080 and is issued to add the model 880xy Universal with keypad. The emphasis of the evaluation was on the device design, operation, marking requirements, performance, and compliance with influence factors. Features of the key pad were evaluated. The indicator was attached to a load cell simulator and several increasing/decreasing tests were performed. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Previous test conditions are noted below for reference.

Certificate of Conformance Number 13-080: The emphasis of the evaluation was on the device design, operation, marking requirements, performance, and compliance with influence factors. The indicator was interfaced with an RL2100 (Certificate of Conformance 95-072) Class III approved load receiving element to verify the zero, zone of uncertainty, multi- interval, multiple range, and motion detection requirements. A load cell simulator was used to perform several increasing/decreasing test, and voltage testing at 100 VAC and 240 VAC, 9 VDC and 36 VDC. The device was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F).

Evaluated By: T. Buck (OH) 13-080; J. Gibson (OH) 13-080A1

Rice Lake Weighing Systems, Inc.
Indicating Element / 880-XY

Type Evaluation Criteria Used: *NIST Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2015 Edition. *NCWM Publication 14 Weighing Devices*, 2014 Edition.

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) 13-080, 13-080A1

Examples of Device:

Panel and Din rail mount types

Back of panel and din rail mount with Ethernet port

Front of 880 Universal with keypad

Sealing points for back and bottom of 880 Universal