



NATIONAL TYPE EVALUATION PROGRAM

# Certificate of Conformance

for Weighing and Measuring Devices

**For:**

Digital Controller Element  
Models: iQube-yx and iQube2-zxy  
 $n_{max}$ : 10 000  
Accuracy Class: III / III L

**Submitted By:**

Rice Lake Weighing Systems  
230 West Coleman Street  
Rice Lake, WI 54868  
Tel: 715-234-9171  
Contact: Derrick Bender  
Email: [dbender@ricelake.com](mailto:dbender@ricelake.com)  
Web site: [www.ricelake.com](http://www.ricelake.com)

**Standard Features and Options**

**Model: iQube-yx:**

- Where "y" will be an "A" for Analog or "D" for Digital
- The "x" will be from 1-8 to indicate the number of channels

**Model: iQube2-zxy:**

- Z = Number of A/D (Channels per Board) 1-3, No Number represents 4 channels

**Both Models:**

X = Enclosure Type; ↓

- A = FRP (Plastic)
- B = Stainless Steel
- C = Painted / Galvanized steel

Y = Power Input Voltage;

- A = 100-240 VAC
- B = AC/DC Adapter or PC / Mobile Device 5-12 VDC
- D = 9-36 VDC
- E = 10-60 VDC

Example: iQube2-AA      4 channels, FRP Enclosure, 100-240 VAC  
 iQube2-2AE      2 channels, FRP Enclosure, 10-60 VDC

Wireless communication between the iQube, iQube2 and a NTEP certified and compatible indicating element.  
Primary weight indication: (see Application section page 2)

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.

Kevin Schnepf  
Chair, NCWM, Inc.

Marc Paquette  
Chair, NTEP Committee  
Issued: May 20, 2026

9011 South 83<sup>rd</sup> Street | Lincoln, Nebraska 68516

The National Council on Weights and Measures (NCWM) does not approve, recommend or endorse any proprietary product or material, either as a single item or as a class or group. Results shall not be used in advertising or sales promotion to indicate explicit or implicit endorsement of the product or material by the NCWM.



## Rice Lake Weighing Systems

Indicating Element / iQube-yx and iQube2-zxy

**Application:** The Model iQube and iQube2 provide Rice Lake proprietary digital output from an analog load cell weighing system to an NTEP certified and compatible indicating element. Applications include Onboard Weighing Systems, Weighing/Load Receiving Elements, tank, hopper, floor, vehicle, and combination vehicle/rail scales.

**Identification:** The required information for the Digital Controller for Load Cells such as Manufacture, Model, Class,  $n_{max}$ , and serial number are on an adhesive self-destruct label placed on the side of the Digital Controller for Load Cells. The required marking information for the indicator is on the front panel of the device. Labels for capacity, division, concentrated load capacity (if required), and section capacity (if required) will be identified on an adhesive label. The label will self-destruct when removed.

**Sealing:** The Digital Controller for Load Cells can be sealed with two wire security seals at opposite corners threaded through a hole in the Digital Controller for Load Cells and then through a slot in the screws in the Digital Controller for Load Cells cover to prevent access to adjustable components inside the Digital Controller for Load Cells.

**Test Conditions:** This Certificate of Conformance supersedes Certificate of Conformance Number 03-032A2 and is issued to clarify compatibility of iQube and iQube2 with other NTEP certified and compatible devices. Per NTEP policy no testing was deemed necessary. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 03-032A1:** This Certificate of Conformance supersedes Certificate of Conformance Number 03-032A1 and is issued to update the contact information and add the classification of “Digital Controller Element” to the “For Box” and the “Standard Features and Options” section of the certificate per NTEP policy no testing was deemed necessary. Previous test conditions are listed below for reference.

**Certificate of Conformance Number 03-032A1:** This Certificate of Conformance supersedes Certificate of Conformance Number 03-032 and is issued to add wireless communication between the iQube models and an approved indicating element and to add the model iQube2, which has a different A/D and processor. The iQube2 can have up to 4 CPU boards consisting of up to 4 channels on each board. Each CPU board can sum all its channels, and all four CPU boards can be summed together. The emphasis of the evaluation was on device design, markings, performance, DC power supply and influence factor testing consisting of  $-10\text{ }^{\circ}\text{C}$  to  $40\text{ }^{\circ}\text{C}$  ( $14\text{ }^{\circ}\text{F}$  to  $104\text{ }^{\circ}\text{F}$ ). The iQube2 models were evaluated. One plastic and one stainless steel. The evaluation included adding up to 4 CPU boards consisting of up to 4 load cells on each board and adding DC power from 9 to 60 volts, including an AC/DC power adapter 6 to 12 volts DC. The AC power supply is the same as the iQube model state in 03-032 below. The previous test conditions are repeated below for reference.

**Certificate of Conformance Number 03-032:** The emphasis of the evaluation was on the device design, markings, operation and compliance with influence factor requirements. For this evaluation, the device was attached to 8 load cell simulators and a Rice Lake Model 920i indicating element (Certificate of Conformance Number 01-088). Several increasing load and return to zero tests were conducted. Additionally, tests were conducted over a temperature range of  $-10\text{ }^{\circ}\text{C}$  to  $40\text{ }^{\circ}\text{C}$  ( $14\text{ }^{\circ}\text{F}$  to  $104\text{ }^{\circ}\text{F}$ ). Tests were also conducted using 100 VAC / 230 VAC power supply.

**Evaluated By:** A. McCoy (OH) 03-032; J. Morrison (OH) & T. Lucas (OH) (03-032A1); J. Gibson (NCWM) 03-032A2 (CN 11394), 03-032A3 (CN 11758)

**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) 03-032; J. Truex (NCWM) 03-032A1; J. Gibson (NCWM) 03-032A2, 03-032A3



**Rice Lake Weighing Systems**  
Indicating Element / iQube-yx and iQube2-zxy

Examples of Device:



iQube-yx



iQube 2-zxy