



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: FB7100/ FB7200/ FB7300 Series*
(see below) $n_{\max}$: 10 000
Accuracy Class: III / III L

Submitted By:

Fairbanks Scales
2176 Portland Street, Suite 1
St. Johnsbury, VT 05819
Tel: 802-473-5228
Fax: 802-473-5213
Contact: Devin Holland
Email: DHolland@fairbanks.com
Website: www.fairbanks.com

Standard Features and Options

*The “-xxx” in the Model Number is for the manufacturer’s use and has no metrological Significance, For example:
FB7101-xxx is the analog, desktop housing
FB7171-xxx is the Intalogix, desktop housing
FB7201-xxx is the analog, desktop housing
FB7221-xxx is the QPS, desktop housing
FB7301-xxx is the analog, desktop housing
FB7321-xxx is the QPS, desktop housing
FB7312-xxx is the Intalogix (digital), washdown housing
FB7101-xxx is the analog, desktop (or wall mount), Washdown housing
FB7112-xxx is the Intalogix (digital) desktop (or wall mount), washdown housing
FB7211-xxx is the Intalogix (digital), desktop housing
FB7202-xxx is the analog, washdown housing
FB7311-xxx is the Intalogix (digital), desktop housing
FB7302-xxx is the analog, washdown housing
FB7322-xxx is the QPS, washdown housing
Note: “PN xxxxx” will be stated to the right of the “Model FB71xx-xxx.” This PN xxxxx is a part number for manufacturing identification of variations of the certified “standard features” and “options” listed below.

Standard Features:

- Semi-automatic (push-button) Zero Setting Mechanism
- Automatic Zero Tracking (AZT)
- Touch Panel LCD Display
- Remote Display, External Keyboard, and Printer, PC Output
- Ethernet Interface, Serial, RS-232, RS-485, Current Loop and extra serial ports, USB Ports
- Keyboard, Semi-automatic (push button), Programmable Tare along with Multiple Tare Memories
- Remote Calibration and Configuration, Relay and Setpoint control
- Units: Pound/Kilogram/Ton/Tonne/Ounce/Gram
- Multi-Interval and Remote Switch Capability
- Weigh-In/Weigh-Out, Capability Gross/Net/Tare Display
- AC Power 115 / 230 volts
- Weight Accumulation
- Category III Audit Trail Capability (see page 2)
- Brushed Stainless Steel and Aluminum Housing

Options:

- Internal Analog to Digital Converter,
- External Analog to Digital Converter (Model ACC-2000-XX)
- External A/D Converter or equivalent with Model ACC-2001-XX Power Supply Box or equivalent (CC 14-103).

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.

Jason Flint
Chair, NCWM, Inc.

Kevin Schnepf
Chair, NTEP Committee
Issued: September 24, 2026

9011 South 83rd 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.

**Fairbanks Scales, Inc.**

Indicating Element / FB7100, FB7200, and FB7300 Series

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

Identification: The required information is on a self-adhesive foil identification badge located on the side or bottom of the indicator. This badge repeats the word "VOID" when removed.

Sealing: In addition to the Category III Audit Trail, the FB Series "Desktop" indicator utilizes wire security seals threaded through the holes in the side of the enclosure cover and through the holes in the heads of two drilled head screws in the side of the enclosure cover. The FB Series "Washdown" indicator utilizes wire security seals in two locations threaded through the holes in the flange of the enclosure cover and through the holes in the heads of two drilled head screws in the front of the enclosure cover. This prevents access to the internal scale functions of the indicator. External A/D utilizes wire security seals threaded through holes in the maintenance latches and holes in the housing.

The Category III Audit Trail utilizes an event logger. To view/print the event logger:

1. From normal weighing mode, press Menu key.
2. Scroll to and select "Audit Trail".
3. Scroll to and select "Audit Type".
4. Scroll to and select "Complete" for the entire audit trail.
5. Scroll to and select "Number of Records".
6. Scroll to and select "All" for the entire audit trail.
7. Scroll to and select "Do Audit Trail" to view the audit report.
8. Press the "Print" key to print the audit report.
9. To return to weighing, press "Exit" and press return key 2 times.

Note: Some weights and measures regulatory agencies require that a scale be sealed not only by means of a category III audit trail but also by means of a physical seal. In these cases, an internal jumper may be used in addition to the Category III audit trail. When a jumper is installed, front panel and remote Calibration and Configuration functions are prevented. This creates a physical internal seal on the instrument, further secured by means of the external wire seal. When a jumper is not installed, front panel and remote Calibration and Configuration functions are allowed following the successful entry of a password (security code). The instrument is always protected by the Category III Audit Trail, regardless of the position of the internal jumper.

Note: To view state of enabling/inhibiting sealable hardware:

1. From normal weighing mode, press Menu key.
2. Scroll to and select "Audit Trail".
3. Observe "NJ Jumper State". Display will indicate "Jumper In Place", meaning the device cannot be calibrated or configured, or "No Jumper", meaning configuration and calibration are permitted by means of a password protected login, traced through the Category III audit trail.
4. To return to weighing, press "Exit" and press return key 2 times.

Operation: A security code must be entered at service menu to gain access to indicator calibration. The indicator is capable of individually monitoring the output from several load cells within one scale system. The indicator is connected to an internal or external A/D converter. The FB7100, FB7200, & FB7300 Series includes a Basic Weighing Mode which performs GROSS PRINT and TARE PRINT operations.

Test Conditions: This certificate supersedes Certificate of conformance Number 19-146A2 and is issued to add a new internal analog to digital converter. A model FB7100 was submitted for evaluation. The device was subjected to multiple increasing/decreasing tests within a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The device was tested with a voltage range of 98 VAC to 253 VAC. Previous test conditions are listed below for reference.

Certificate of Conformance Number 19-146A2: This certificate supersedes Certificate of Conformance Number 19-146A1 and is issued to add FB7200 & FB7300 series which has two serial expansion board that adds two more ports for accessory cards and increase size of display and case size. The FB7201 and FB7222 was submitted for evaluation. The emphasis of the evaluation was on device design, operation, performance and compliance with influence factor requirements. The indicators were interfaced with a load cell simulator and then tested for accuracy over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The indicators were

**Fairbanks Scales, Inc.**

Indicating Element / FB7100, FB7200, and FB7300 Series

interfaced with a load receiving element, Fairbanks 10.0 lb capacity scale and printer. The device was tested for discrimination, power interruption, AC voltage variations of 110 VAC to 240 VAC, zero tests, printer format, increasing and decreasing load test, and warm up tests. Added expansion boards for accessory ports were tested with test cards to indicate their ability to function. No other testing was deemed necessary at this time. Previous test conditions are listed below for reference.

Certificate of Conformance Number 19-146A1: This certificate supersedes Certificate of Conformance Number 19-146 and is issued to add a washdown housing option. One FB7102 was submitted for evaluation. The emphasis of the evaluation was on the marking, sealing, and temperature test requirements. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). No other testing was deemed necessary at this time. Previous test conditions are listed below for reference.

Certificate of Conformance Number 19-146: The emphasis of the evaluation was on the device design, operation, performance, marking, sealing, and compliance with influence factor requirements. A quantity of 2 (two) Fairbanks Model FB7101-xxx and 2 (two) Model FB7111-xxx indicating elements were submitted for the evaluation. (*Each of the two FB7111-xxx indicators were connected to a separate Fairbanks, Model ACC-2000-1 external A/D converter with ACC-2001-1 power supply*). Several performance tests were conducted with the indicator interfaced with a weighing element, load cell simulators, a remote display, and a printer. The remote calibration/configuration feature, category III audit trail, multiple interval feature, and weigh-in/weigh-out operations were verified. The indicator was tested over a temperature range of -10 °C to 40 °C (14 °F to 104 °F). Additionally, tests were conducted for unit conversion and using power supplies of 115 VAC and 230 VAC.

Evaluated By: M. Kelley (OH), 19-146, 19-146A1; B. Stone (OH) 19-146A2., J. Coffey (OH) 19-146A3 (CN 11834)

Type Evaluation Criteria Used: *Handbook 44 Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices*, 2026 Edition. *NCWM Publication 14: Weighing Devices*, 2026 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) 19-146, 19-146A1, 19-146A2, J. Gibson (NCWM) 19-146A3

Example(s) of Device:**Desktop Indicators**

FB71x1



FB72x1



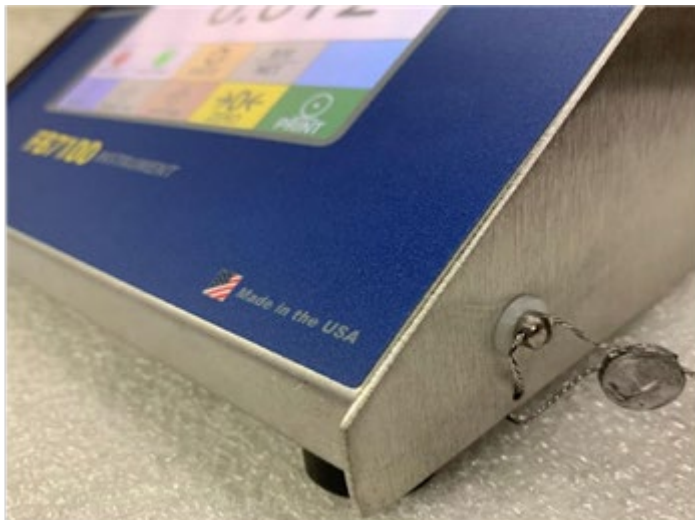
FB73x1



Fairbanks Scales, Inc.

Indicating Element / FB7100, FB7200, and FB7300 Series

Desktop Indicator Sealing:



Washdown Indicators



FB71x2 / FB72x2 / FB73x2



FB71x2 / FB72x2 / FB73x2 Sealing