



NATIONAL TYPE EVALUATION PROGRAM

Certificate of Conformance

for Weighing and Measuring Devices

For:

Indicating Element
Digital Electronic
Model: FB25XX-XXX* (see below)
 $n_{\max}$: 10 000
Accuracy Class: III / IIIL

Submitted By:

Fairbanks Scales
2176 Portland Street, Suite 1
St. Johnsbury, VT 05819
Tel: 802-473-5215
Fax: 802-473-5213
Contact: Devin Holland
Email: dholland@fairbanks.com
Web site: www.fairbanks.com

Standard Features and Options

*Model ID: The "X-XXX" in the model number is for manufacturer's use and has no metrological significance, for example:

- FB25XX is the Desktop Housing
- FB25XX-SS is the Desktop (or Wall Mount) Wash down Housing
- FB25XX-PNL is the Panel Mount Housing
- FB25XX-HPL is the Panel Mount Wash down Housing
- FB25XX-RCK is the Rack Mount Housing
- FB25XX-DAT is the Driver Assist Terminal Housing

"PN xxxxx" will be stated to the right of the "Model FB25XX-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
- Automatic Zero Tracking (AZT)
- Alphanumeric (graphical) Touch Screen LCD Display
- Keyboard Tare
- Semi-automatic Tare
- Programmable Tare
- Multiple Tare Memories
- Gross/Tare/Net Display
- Remote Calibration and Configuration

- Multiple Load Receiving Elements
- Weigh-In/Weigh-Out Capability
- Pound/kg/Ton/Tonne Units Available
- Multi-Interval Capability
- Category II Audit Trail Capability (see page 2)
- Stainless Steel and Aluminum Housing
- AC Power 115 volts / 230 volts
- External Keyboard
- Wireless Interface

Options:

- Serial, Parallel, Current Loop and USB Ports
- Remote Display and Printer Outputs
- VGA, Ethernet Interface
- Model ACC-2000-XX External A/D Converter or equivalent with Model ACC-2001-XX Power Supply Box or equivalent.
- Model ACC-2000-5X and ACC-2000-6X External A/D Converter or equivalent.
- Industrial Control Output (Modbus, Anybus, PLC, etc.)
- Video Display
- External and/or Internal Analog to Digital Converters

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.

Jason Flint
Chair, NCWM, Inc.

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

9011 South 83rd Street | Lincoln, Nebraska 68516

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Application: A general purpose indicating element to be interfaced with a compatible certified analog-to digital (A/D) converter and a certified and compatible weighing element.

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

Sealing: The indicator has a Category II Audit Trail with 2 event counters. As an alternative, the indicator has 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. This prevents access to the internal parts of the indicator. This is provided for those jurisdictions that do not utilize a category II Audit Trail. The FB25XX-SS utilizes an internal sealing plate. This allows technicians to remove the back cover and add a printer to the installation without breaking the seal. Wire security seals threaded through the holes in the heads of two drilled head screws on the right side of the enclosure as well as two drilled head screws on the inside of the enclosure securing the internal sealing plate. This prevents access to the internal scale functions of the indicator. The FB25XX-HPL utilizes wire security seals threaded through holes in two mounting screws on the front of the cover as well as a lead and wire threaded through a hole in the rear panel and the hole in the screw holding the rear cover in place. This prevents access to the internal scale functions of the indicator. The FB25XX-DAT utilizes a wire seal threaded through a hole in the enclosure cover and through a hole drilled in the flange for the closure clamp. This prevents access to the internal scale functions of the indicator. External A/D utilizes wire security seals (also threaded through drilled head screws on the enclosure cover).

The Category II Audit Trail utilizes two event counters. To view the event counters:

1. From normal weighing mode, select "MENU."
2. Select "CONFIGURATION."
3. Select "Audit Trail."
4. Select "CALIBRATION AUDIT TRAIL" or "CONFIGURATION AUDIT TRAIL."
5. Select "Back or Return to weighing."
6. Select the tab "Save & Exit."
7. Select "Exit Without saving."

OR

1. From normal weighing mode, select "MENU."
2. Select "Audit Trail."
3. Select "CALIBRATION AUDIT TRAIL" or "CONFIGURATION AUDIT TRAIL."
4. Select "Return to weighing."

Note: Some weights and measures regulatory agencies require that a scale be sealed not only by means of a Category II audit trail but also by means of a physical seal. In these cases, a jumper may be used in addition to the Category II audit trail. When a jumper is ON the two JPI pins on the Multi-Function Board, shorting them together, all front panel and remote Calibration functions are prevented. This creates a physical internal seal on the instrument, further secured by means of the external wire seal. This is indicated on the Weigh Screen by a closed padlock in the front lower-left corner of the display. When a jumper is OFF the two JPI pins on the Multi-Function Board, and not shorting them together, Calibration functions are allowed on the front panel following the successful entry of a password (security code). This is indicated on the Weigh Screen by an open padlock in the front lower-left corner of the display. The instrument is always protected by the Category II Audit Trail, regardless of the position of the internal jumper.

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 a number of load cells within one or multiple scale systems. The indicator is connected to internal and/or external A/D converters.

Test Conditions: This certificate supersedes Certificate of Conformance Number 10-089A7 and is issued to add a new internal analog to digital converter to the series of devices. A model FB2560 was submitted for evaluation. The device was subjected to multiple



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increasing/decreasing tests within a temperature range of -10 °C to 40 °C (14 °F to 104 °F). The device was tested within a voltage range of 98 VAC to 253 VAC. Previous test conditions are listed below for reference.

Certificate of Conformance Number 10-089A7: This certificate supersedes Certificate of Conformance Number 10-089A6 and is issued to change the model designation from FB255X-XXX to FB25XX-XXX, which allows the manufacturer more flexibility with non-metrological features of the device. The third numerical digit in the model designation does not represent metrological features. This issue also clarifies information provided in the sealing section of the certificate. Based upon information provided by the manufacturer and reviewed by NTEP, no additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 10-089A6: This certificate supersedes Certificate of Conformance Number 10-089A5 and is issued to clarify the information provided in the sealing section of the certificate. No additional testing was deemed necessary. Previous test conditions are listed below for reference.

Certificate of Conformance Number 10-089A5: This certificate supersedes Certificate of Conformance Number 10-089A4 and is issued to change the model designation from FB2550-XXX to FB255X-XXX, which allows the manufacturer more flexibility with non-metrological features of the device. The fourth numerical digit in the model designation does not represent metrological features. Based upon information provided by the manufacturer and reviewed by NTEP, no additional testing was deemed necessary.

Certificate of Conformance Number 10-089A4: This certificate supersedes Certificate of Conformance Number 10-089A3 and is issued to add a “driver assist terminal” housing option. One FB2550-DAT was submitted for evaluation. The emphasis of the evaluation was on the marking and sealing requirements. No other testing was deemed necessary.

Certificate of Conformance Number 10-089A3: This certificate supersedes Certificate of Conformance Number 10-089A2 and is issued to add wash down housing options. One FB2550-SS and one FB2550-HPL were submitted for evaluation. The emphasis of the evaluation was on the marking and sealing requirements. No other testing was deemed necessary at this time.

Certificate of Conformance Number 10-089A2: This certificate supersedes Certificate of Conformance Number 10-089A1 and is issued to add wireless capability for a single indicator interfaced up to 4 load receiving elements and to demonstrate there is no interface when there are multiple wireless systems operating in close proximity. For the purpose of this evaluation (in association with NTEP Certificate of Conformance No. 95-044A4), the testing was conducted in two configurations. Test configuration one was a Fairbanks model R2500 indicator interfaced with an RF pit power supply transceiver and two load cell simulators connected to a Fairbanks smart sectional controller that was interfaced with an RF pit power supply transceiver. Test configuration two consisted of two Fairbanks model R2500 indicators each interfaced with an RF pit power supply transceiver and two load cell simulators each connected to a Fairbanks smart sectional controller that was interfaced with an RF pit power supply transceiver. Each of the systems in test configuration two were operating on different channels and placed within close proximity (approximately 3 feet) of each other. Several load tests were simulated and printed. The system was evaluated for loss of signal which gave a “Data Link Error” message.

Certificate of Conformance Number 10-089A1: This certificate supersedes Certificate of Conformance Number 10-089 and is issued to add a new internal analog to digital converter, and rack mount and panel mount housings options. The emphasis of the evaluation was on the device design, operation and compliance with influence factor requirements. Several performance tests were conducted with the indicator interfaced with a weighing element load cell simulators, and a printer. The indicator was tested for accuracy 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.

Certificate of Conformance Number 10-089: A quantity of 3 (three) Fairbanks, Model FB2550-xxx indicating elements were submitted for evaluation. Two of the three FB2550 indicators were connected to a separate Fairbanks, Model ACC-2000-5 external A/D converter. Additionally, each of the three FB2550 indicators was connected to a separate Fairbanks, Model ACC-2000-1 external A/D converter with ACC-2001-1 power supply. The emphasis of the evaluation was on the device design, operation, performance, marking, and compliance with influence factor requirements. 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 II audit trail, multiple interval feature, multiple load receiving element operation and weigh-in/weigh-out operations were verified. The indicator and external A/D's were 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.



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Evaluated By: E. Matthews, M. Kelley (OH) 10-089, 10-089A1; T. Lucas (OH) 10-089A2; J. Morrison, C Harris (OH) 10-089A3, 10-089A4, J. Coffey (OH) 10-089A8 (CN 11833)

Type Evaluation Criteria Used: NIST, Handbook 44: Specifications, Tolerances and Other Technical Requirements for Weighing and Measuring Devices, 2026. NCWM, Publication 14: Weighing Devices, 2026.

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) 10-089, 10-089A1, 10-089A2, 10-089A3, 10-089A4, 10-089A5, 10-089A6, 10-089A7, J. Gibson (NCWM) 10-089A8

Examples of Device:



Standard Desktop Option



FB255X-PNL Panel Mount Option



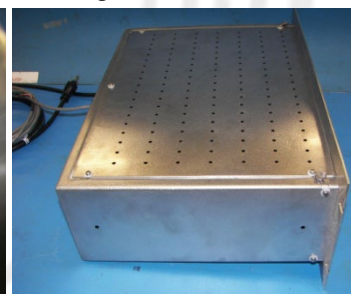
Sealing of Panel Mount



Rack Mount Option (Sealing of Front)



Side view of Rack Mount Option



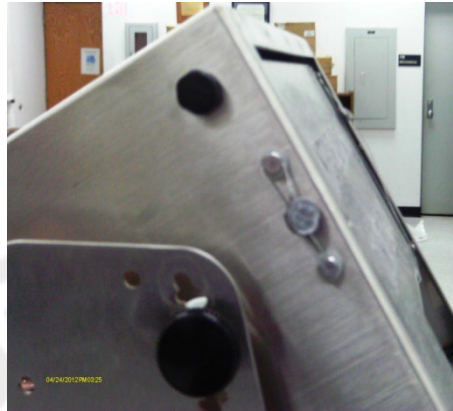
Sealing of Rack Mount (Side)



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FB255X-SS Desktop (or Wall Mount)
wash down Housing



Outside seal holds internal sealing plate
in place



Inside seal on internal sealing plate



FB255X-HPL is the Panel Mount Wash
down Housing



FB255X-HPL sealing back panel



FB255X-HPL sealing front of panel



FB255X-DAT