

Mid-West Instrument 855 Accuracy Verification Program

Purpose:

The Model 855 Accuracy Verification Program is used to read the delta pressure directly from the 855 digital test kit, allowing service centers to update the calibration date stored on the gauge to the current date. The calibration date, stored digitally on the gauge, is used to populate the MachbackFlow app-generated PDF reports and is saved with the 855 test results in the cloud. It is not a replacement for a physical copy of a calibration sheet that should always be kept with the gauge.

Requirements:

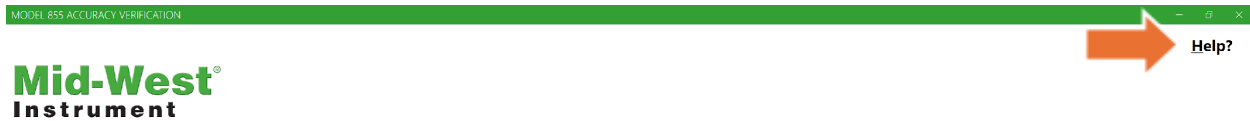
- Registered MachBackflow Account
- USB-C Cable capable of data transfer
- Calibrated Pressure Source capable of producing 15 PSI with an accuracy of ± 0.05 PSI or better.
- Windows 10/11 PC with an accessible USB port
- 855 Test Kit

Initial Installation:

1. Download the application (Model855AccuracyVerifyProgram-20250521T1 from the link provided by Mid-West Instrument or WTM Solutions. (You may have to allow the download if the download is blocked from the browser)
2. Locate the downloaded Zip file using file explorer, and will be located in the downloads folder.
3. Open the compressed file -> then open the next folder called Model855AccuracyVerifyProgram.
4. Open/Run Setup file, by double clicking on the on the setup file or select the setup file and right click and select open.
5. Windows defender will more then likely open -> select "more info" in the upper left corner.
6. Then Select "Run anyway" in the bottom right corner.
7. Installation box will appear -> select "install".
8. The calibration program will then open up when installation is complete.

After Initial Installation Directions

1. Launch the program by searching for Model855_AccuracyVerify in the Start menu.
2. A login screen will appear when the program is opened.
3. At the top right corner, a help menu is always visible.



User Login

User Name (email address)

Password

Login

User Name and Password will be the same as the email address and password registered with the MachiBackflow mobile app

4. Clicking on the “Help?” will expand a menu with a link to the calibration help page (FAQs), a support email that can be copied and pasted, and display the program's version number for support purposes.

User Login

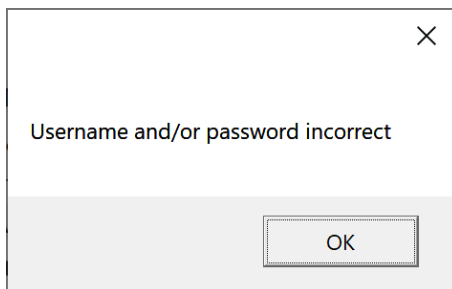
User Name (email address)

Password

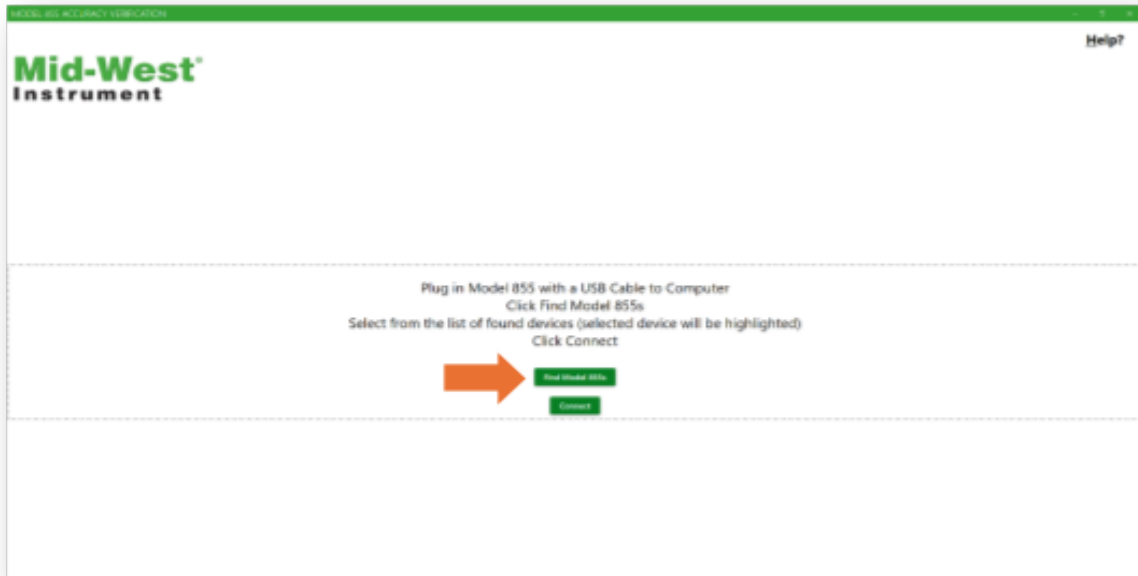
Login

User Name and Password will be the same as the email address and password registered with the MachBackFlow mobile app.

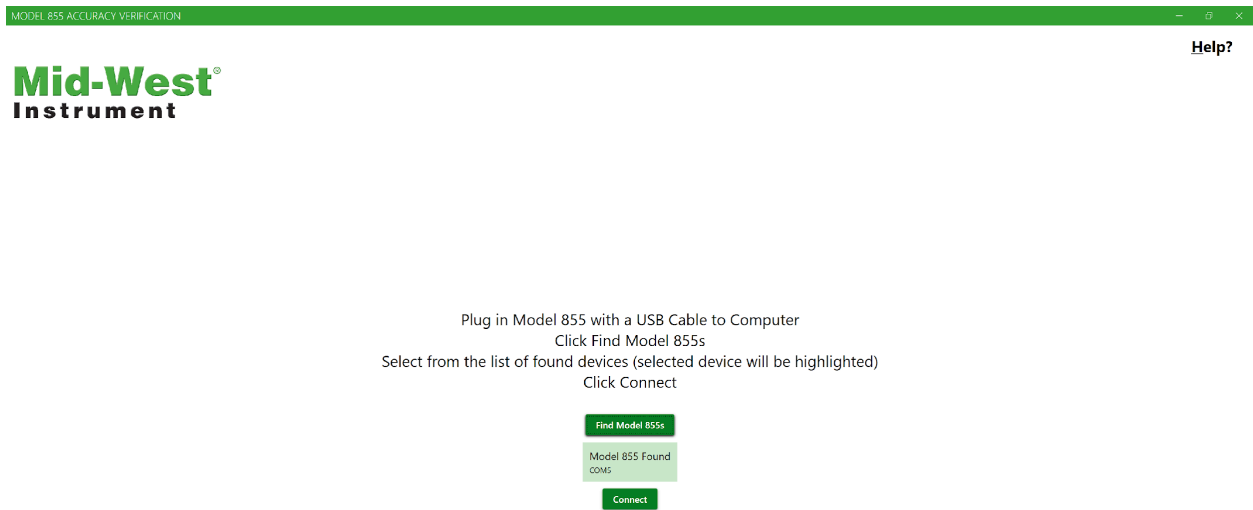
5. To log in, enter the email address and password associated with a registered MachBackFlow account and click “Login”. If the username or password is incorrect or not registered, the following error message will appear. If the error persists, please reach out using the support email provided in the help menu.



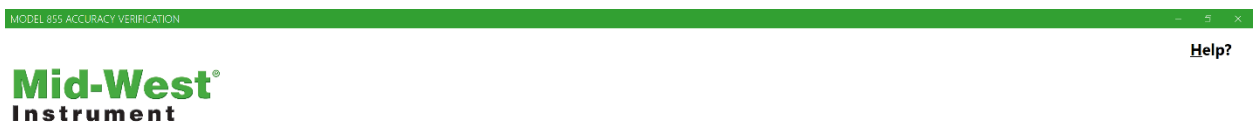
6. Upon successful login, the connection screen will appear. Using a USB-C cable capable of data transfer, plug the 855 into one of the computer's USB ports.
7. Turn on the 855 so the light on the LED power indicator on the front of the device is illuminated red.
8. Click “Find Model 855s” in the Accuracy Verification Program.



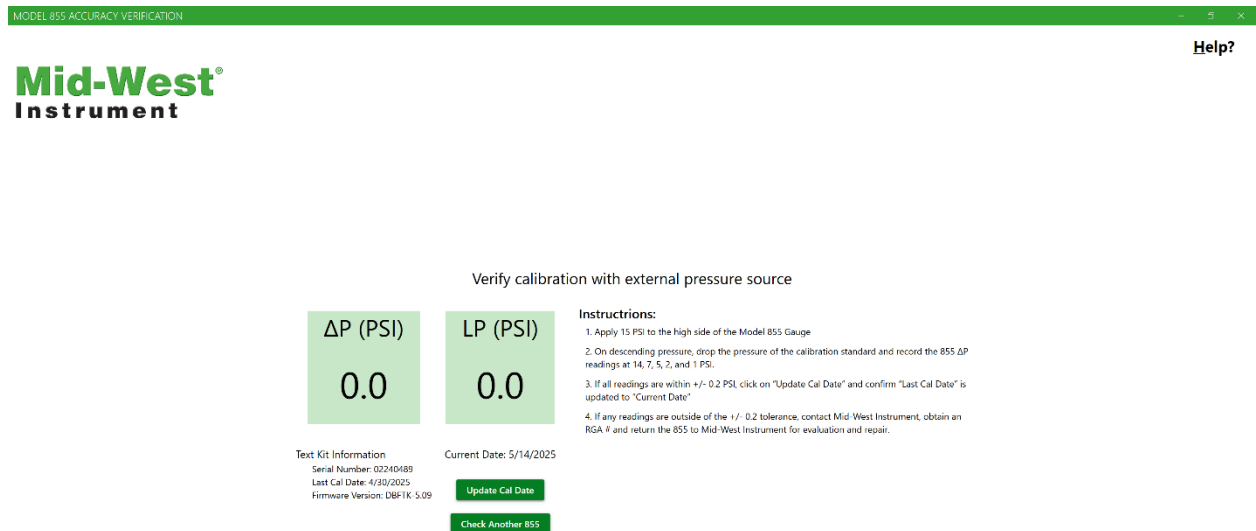
9. A list of all 855s connected to the computer will appear.



10. Select an 855 from the list. Once selected, the device will change color from light green to dark green.



11. With a device selected, hit “Connect.”
12. Upon successful connection, the device accuracy verification page will appear in which live pressures from the device are displayed.



13. Verify that the serial number of the device listed in the program matches the serial number of the device under test.
14. To verify accuracy, use a calibrated pressure source to apply 15 PSI of pressure to the high side of the gauge with all test kit valves closed.
15. Slowly drop the pressure to 14 PSI and record the gauge reading of the delta pressure at 14 PSI from the program onto a new calibration sheet.
16. Repeat this process by slowly dropping the pressure to the following set points of 7 PSI, 5 PSI, 2 PSI, and 1 PSI, recording the reading from the gauge displayed in the program for each set point.
17. Review the results and determine if gauge readings are within 0.2 PSI of each setpoint.
18. If all the gauge readings are within the required tolerance, click “Update Cal Date” in the program.
19. Complete the calibration sheet and provide a copy, along with the verified gauge, to the customer.
20. If the gauge readings ARE NOT within the required tolerance, reach out to Mid-West Instrument via the support email provided in the help menu to start an RGA for evaluation and repair.