

Wireless mV Scale Calibration

Wireless TranSend/SendIt transmitter and receiver pairs must be calibrated to the connected load cells before an indicator can be calibrated to the load cells. If the TranSend/SendIt pair is not calibrated, the indicator may have unexpected range limits and distorted weight values.



Manuals are available from Rice Lake Weighing Systems at www.ricelake.com/manuals

Warranty information is available at www.ricelake.com/warranties

System Requirements

Specifications subject to change without notice.

Windows® Operating System

Display: 800 x 600 or greater

Built-in serial port or USB to serial port adapter

FTDI chip set required (Tripp-Lite USB/Serial Adapter (PN 153603) recommended - install driver)

JAVA JRE 1.7 or newer

To download and install JAVA JRE: <https://java.com/en/download/manual.jsp>

Install Software

To install **MSI mV Scale Calibration** program:

1. Open the Rice Lake website and navigate to the MSI-7001 TranSend product page.
2. Download the **MSI mV Scale Calibration** software to the computer.
3. Extract the **MSI mV Scale Calibration** folder.
4. Open the folder and double click on ScaleCoreConnect_XX-XX.exe.

Calibrate TranSend/SendIt

Perform the following instructions to calibrate an TranSend/SendIt pair.

1. Connect the receiver unit to the computer through the serial port. See the TranSend/SendIt technical manual for more information on RS-232 serial connections.
2. Power on the transmitter and receiver units.
3. Navigate to and launch the installed **MSI mV Scale Calibration** program on the computer.
4. Select **Calibration** from the setup type drop-down menu.

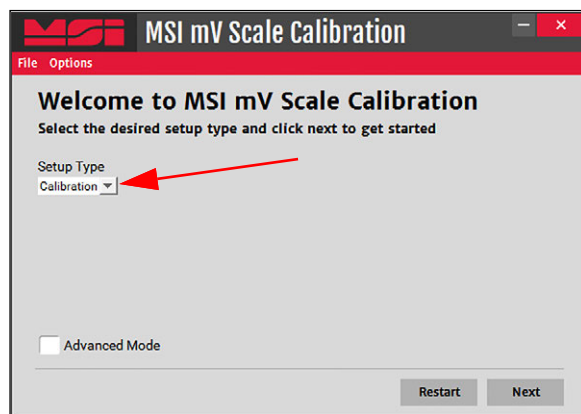
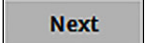


Figure 1. Calibration

5. Select .

6. Select the COM port the TranSend/SendIt receiver is connected to from the drop-down menu.



NOTE: All other terminal applications must be closed.

If no Com Port selection is available, ensure the serial cables are properly connected, the drivers are installed properly and that the TranSend/SendIt pair is powered up. Once a connection is made, restart the calibration program.

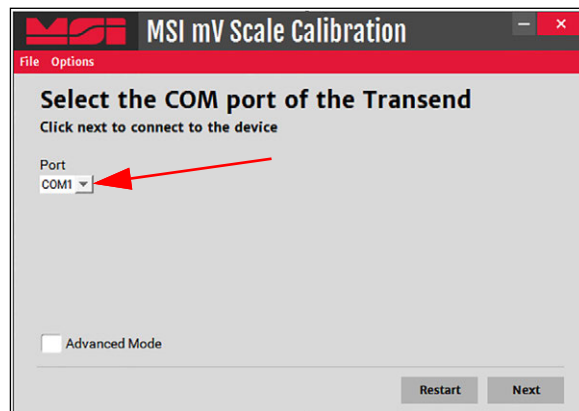


Figure 2. COM Port Selection

7. Select **Next**.
8. Select the **Advanced Mode** checkbox.
9. If necessary, change upper and lower percents detected by the TranSend/SendIt system.

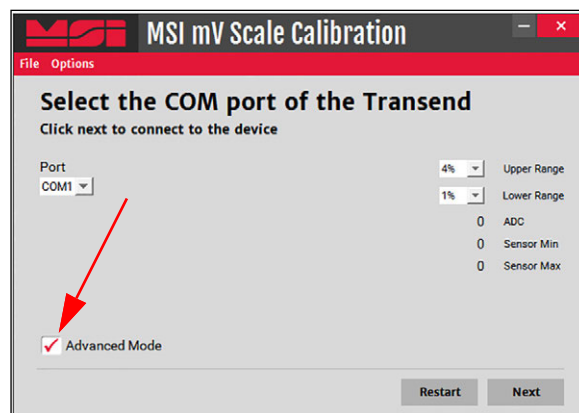
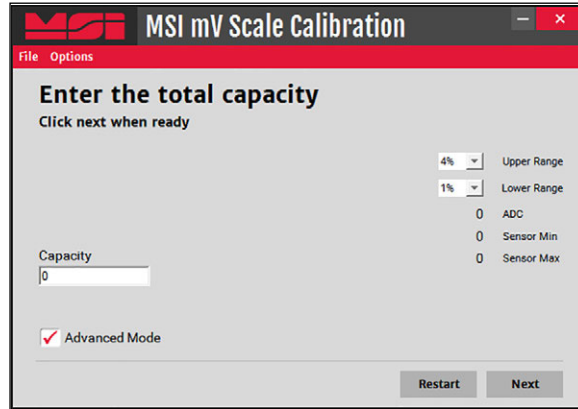


Figure 3. Advanced Mode

10. Select **Next**.

11. Enter the total scale capacity.

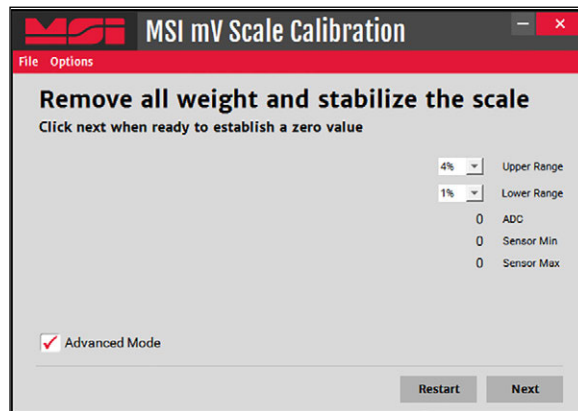


The screenshot shows the 'MSI mV Scale Calibration' window with the title 'Enter the total capacity'. Below the title is the instruction 'Click next when ready'. On the left, there is a 'Capacity' input field with the value '0'. On the right, there are dropdown menus for 'Upper Range' (set to 4%) and 'Lower Range' (set to 1%). Below these are three status indicators: '0 ADC', '0 Sensor Min', and '0 Sensor Max'. At the bottom left, the 'Advanced Mode' checkbox is checked. At the bottom right, there are 'Restart' and 'Next' buttons.

Figure 4. Scale Capacity

12. Select **Next**.

13. Remove all weight from the scale.



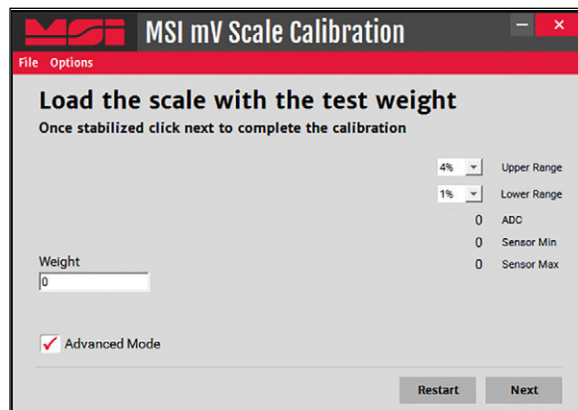
The screenshot shows the 'MSI mV Scale Calibration' window with the title 'Remove all weight and stabilize the scale'. Below the title is the instruction 'Click next when ready to establish a zero value'. On the right, there are dropdown menus for 'Upper Range' (set to 4%) and 'Lower Range' (set to 1%). Below these are three status indicators: '0 ADC', '0 Sensor Min', and '0 Sensor Max'. At the bottom left, the 'Advanced Mode' checkbox is checked. At the bottom right, there are 'Restart' and 'Next' buttons.

Figure 5. Zero Calibration

14. When scale is stable, select **Next**.

15. Load test weights onto the scale.

16. Enter the value of the test weights in the weight dialogue box.



The screenshot shows the 'MSI mV Scale Calibration' window with the title 'Load the scale with the test weight'. Below the title is the instruction 'Once stabilized click next to complete the calibration'. On the left, there is a 'Weight' input field with the value '0'. On the right, there are dropdown menus for 'Upper Range' (set to 4%) and 'Lower Range' (set to 1%). Below these are three status indicators: '0 ADC', '0 Sensor Min', and '0 Sensor Max'. At the bottom left, the 'Advanced Mode' checkbox is checked. At the bottom right, there are 'Restart' and 'Next' buttons.

Figure 6. Span Calibration

17. Select **Next**. **Calibration Complete** displays.

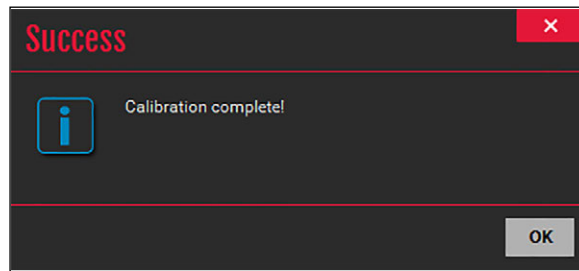


Figure 7. Calibration Complete

18. Select **OK** to return to the calibration start display.
19. Calibrate the indicator, see the indicator manual for instructions.



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