

Applicable Asset Models

✓ ME54	✓ ME104E	✓ ME303	✓ ME1002	✓ ME3002E
✓ ME54E	✓ ME203	✓ ME303E	✓ ME1002E	✓ ME4001
✓ ME103	✓ ME203E	✓ ME403	✓ ME2002	✓ ME4001E
✓ ME103E	✓ ME204	✓ ME802	✓ ME2002E	✓ ME4002
✓ ME104	✓ ME204E	✓ ME802E	✓ ME3002	✓ ME4002E

Package Contents

- ✓ Element-D
- ✓ Power Supply
- ✓ Mounting Plate
- ✓ Connection Cable

Note: You may receive multiple types of cables if you are connecting Element-D's to different types of assets.

Prerequisites

- ✓ This integration is intended only for use in conjunction with MasterControl software. Weight and unit data is collected, other data is ignored. If you need other data from this unit, please contact Elemental Machines for inquiries.

Safety Information



Review and abide by the safety information found in the Element-D and ME series user manuals. Ensure compliance with your company safety best practices, which may include de-energizing equipment before working with electrical connections. Tidy connection cable to prevent tripping hazards.

Installation Instructions

Receiving the Shipment

1. If this is your first time setting up the Elemental Machines system, you will receive an email for your dashboard account verification. Save this email for when the devices arrive.
2. When devices are shipped, they will be added to your Elemental Insights™ Dashboard with default names.
3. When devices arrive, carefully remove the contents from the packaging. If any of the contents look damaged, please send a picture to help@elementalmachines.com.
4. Confirm the Element-D's in your package are labeled with the assets to which they are to connect. If the labels do not match the intended assets for connection, please contact help@elementalmachines.com.

Element-D Initial Power-up

5. Move the Element-D for the asset into a dashboard group on the Elemental Insights™ Dashboard. The device status on the dashboard will be listed as 'disconnected'.
6. Plug the Element-D in using the provided power supply.
7. If the device has not been preloaded with your company's Wi-Fi, complete Wi-Fi Connection outlined in 771-00010 Wi-Fi Connection Guide - Gateway GW2/3, Element-C/D.
 - a. 771-00010 is included with your Element-D as a printed copy. Digital versions of this are available in the Support section of the Elemental Insights™ Dashboard.

Attaching Connection Cable to Asset

8. Locate the RS-232 data port on the asset (shown in Figure 1) to which the Element-D will connect.



Figure 1 Data port on asset

9. Plug the corresponding end of the Connection Cable into the data port on the asset.

Configuring Asset Menus

10. Enter the balance menus with a long button press of the Menu button. The balance will navigate to the start of the BASIC menu on the screen.



11. Navigate forward to the next menu topic with the press of the Cal button. You will see the start of the ADVANCE menu. Press the Cal button again to reach the **INT.FACE** menu.



12. Enter the **INT.FACE** submenu by pressing the Menu button. The **RS232** screen will appear. Press the Menu button.



For: Mettler Toledo ME Series (1 Channel) Balance

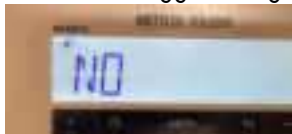
13. The PRINTER will appear. Press the Menu button to view the PRINTER menu options. Use Cal to toggle through options until you reach **PRT.STAB**.



14. Press Menu to select **PRT.STAB**. The RS232 screen will appear.
15. Press Cal to advance to the **HEADER** menu. Press Menu to view the HEADER menu options.



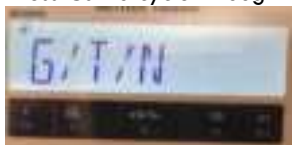
16. Press Cal to toggle through the HEADER options until the selection is **NO**. Press Menu button to Select No.



17. Press Cal to advance to SINGLE menu. Press the Menu button to enter the option under the SINGLE MENU.



18. Press Cal to cycle through the two options until you reach **G/T/N**. Press the Menu button to accept G/T/N.



19. Balance screen will say SINGLE again. Press short Cal to advance to **SIGN.L** Press the Menu button to enter the SIGN.L menu options.



20. Toggle through the options with Cal button until you reach OFF. Press Menu to accept OFF.



21. The Menu will return to the SIGN.L screen. Advance though the menu by pressing the Cal button to reach advance to BAUD.



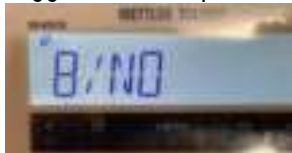
22. Press the Menu button to view Baud rate option. Toggle with the Cal button until you reach 9600. Select the value with the press of the Menu button.



23. The screen will return back to BAUD. Press the Cal button to advance to **BIT.PAR**. Press the Menu button to enter the BIT.PAR menu options.



24. Toggle the menu options using the Cal button until you reach **8/NO**. Press the Menu to accept 8/NO.



25. You will return to the BIT.PAR screen. Press the Cal button to advance to **STOPBIT**. Press the Menu to enter the STOPBIT menu options.



26. Toggle the Stop bit options by pressing the Cal button until you reach **1 BIT**. Press Menu to accept 1 BIT and return to the STOPBIT screen.



27. Press the Cal to advance to **HD.SHK** menu item. Press the Menu to enter the Handshake menu.



28. Toggle through the Handshake menu items with the Cal button until you reach **OFF**. Press the Menu button to accept OFF.



29. You will return to the HD.SHK menu. Press the Cal button to advance to **RS.TxE.O.L**. Press the Menu to see options under the RS.TxE.O.L menu.



30. Toggle through the RS.Tx.E.O.L option by pressing the Cal button until you reach **CR LF**. Press the Menu button to accept this value.



31. You will return to the RS.Tx.E.O.L screen. Press the Cal to advance to **RS.CHAR**. Hit Menu to enter the RS.CHAR menu.



32. Toggle through the menu option by pressing the Cal button until you reach **ANSI.WIN**.



Attaching Connection Cable to Element

33. Plug the USB end of the Connection Cable into the data port on the Element-D. The USB connector may be plugged into any USB port on the Element-D (Figure 2).



Figure 2 Data ports on Element-D

Positioning the Element-D

34. Determine where the Element-D should be placed to allow for power access and a tidy connection cable.
35. Securely position the Element-D in the chosen location. The Element-D has magnets which make it easily mountable to magnetic surfaces.
- a. Note: If applicable, an adhesive metal mounting plate available from EM may be used.

Finalization

36. To send a weight measurement to the Elemental Insights Dashboard, press the PRINT button on the balance (Figure 3).



Figure 3 Print button on Balance Display.

37. Confirm that the value appears on the dashboard. (The dashboard may only display two digits after the decimal point. However, transfer to any third party platforms will include the full value.).
38. If the dashboard does not display any value, check cable connection and menu settings. If data does not appear on the dashboard, power cycle the Element-D. Contact help@elementalmachines.com if problem persists.
39. Set up alert rules on the Elemental Insights™ Dashboard for the Element-D. Guidance on how to do so is available in the Support section of the dashboard.
40. Contact any third-party vendor for next steps regarding communication to the external platform (if applicable).