

Applicable Asset Models

✓ PA64	✓ PA214	✓ PA2102
✓ PA114	✓ PA413	✓ PA4101
✓ PA213	✓ PA512	✓ PA4102

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. Some balance data may not display the correct number of significant figures on the Elemental dashboard, however, data to MasterControl will match balance output. Weight and unit data is collected, other data is ignored.

Safety Information



Review and abide by the safety information found in the Element-D and Ohaus Pioneer Balance 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 to which the Element-D will connect. The data port will look like the port shown in Figure 1.



Figure 1 RS-232 data port

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

Configuring Asset Menus

10. Navigate to the **RS232 Menu** and set the parameters as follows:
 - a. Baud: 9600
 - b. Parity: 8bit - no parity
 - c. Handshake: Off
11. Navigate to the **Print Menu**
 - a. Navigate to the **Content** item. This should **not** be set to Number. Any other option will work.
 - b. Navigate to the Line Format item and set it to **Multi**.
12. The following items under the **PRINT Menu** can be configured by the user per use case:
 - a. Output Stable: on/off
 - b. Auto Print: Continuous, IN

Attaching Connection Cable to Element

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

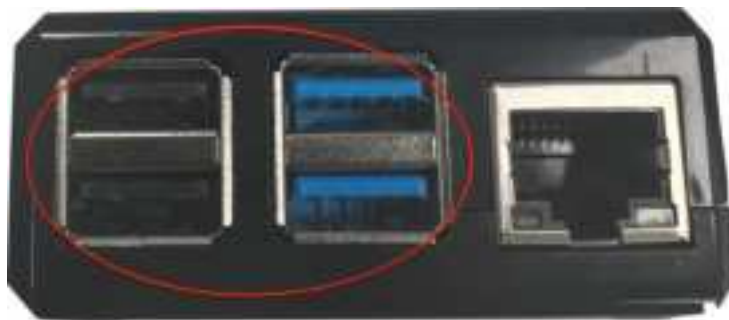


Figure 2 Data ports on Element-D

Positioning the Element-D

14. Determine where the Element-D should be placed to allow for power access and a tidy connection cable.
15. 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

16. To send a weight measurement to the Elemental Insights Dashboard, press the PRINT button on the balance.
17. 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.).
18. 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.
19. Contact MasterControl to complete API setup.