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ELEMENTAL MACHINES EB1 Toxgard II Oxygen Monitor Installation Guide

Contents

ELEMENTAL MACHINES EB1 Toxgard II Oxygen Monitor

Product Information:

The Element-B is an installation component designed for use with the Miltenyi Prodigy Cell Processing System. It is compatible with models EB1 and EB2. The Element-B package includes a connection cable.

For the safety of users, it is important to review and follow the safety information provided in both the Element-B and Miltenyi Cell Processing System user manuals. Additionally, it is recommended to keep the connection cable tidy to prevent tripping hazards.

Product Usage Instructions

Receiving the Shipment:

1. If setting up the Elemental Machines system for the first time, check your email for a dashboard account verification email and save it for later use.
2. Upon shipment arrival, the devices will be automatically added to your Elemental Insights DashboardTM with default names. Log in to see all devices marked as 'disconnected'.
3. Carefully unpack the shipment contents. If any of the items appear damaged, take a picture and send it to help@elementalmachines.com for assistance.
4. If multiple Element-B's were ordered, ensure that the Element-B being used is configured as Normally Closed (NC). This can be verified by checking the device label, the dashboard under 'Machine Model', or the packing list received with the shipment. a. Note: Element-B's can be configured as Normally Closed (NC) or Normally Open (NO) by Elemental Machines. Different assets may require different configurations. If multiple Element-B's were ordered for different assets, make sure to attach the correctly configured device to the corresponding asset.

Gateway Setup:

Ensure there is an Elemental Machines Gateway set up within wireless connection range of the Element-B. The type of Gateway may vary depending on your location and application. If you have a tablet Gateway, refer to

Appendix 1: Gateway Setup for brief setup instructions. If you have a Gateway Model GW2 or GW3, follow the setup instructions provided in the respective Gateway User Manual.

Attaching Connection Cable to Miltenyi Cell Processing System:

5. Locate the External Alarm panel on the back of the instrument (refer to Figure 1).
6. Plug the round end of the connection cable into the port on the External Alarm panel. Ensure proper alignment by rotating the cable if necessary.

Attaching Connection Cable to Element:

7. At your discretion, write the name and/or location of the equipment being monitored on the Element-B using a Sharpie or similar marker.
8. Plug the thermocouple end of the connection cable (refer to Figure 2) into the Element-B. Ensure that the (-) and (+) prongs of the thermocouple end are properly matched.

Element-B Installation Guide
Models: EB1, EB2
For Miltenyi Prodigy Cell Processing System

Applicable Miltenyi Cell Processing System Models

- Prodigy

Package Contents

- Element-B
- Connection Cable

Safety Information

Review and abide by the safety information found in the Element-B and Miltenyi Cell Processing System user manuals. 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. When you first log in you will see all your devices with a 'disconnected' status.
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. If you have ordered multiple Element-B's, ensure the Element-B being used is configured as Normally Closed (NC). This can be verified by checking the device label, the dashboard under 'Machine Model', or the packing

list sent with your shipment.

- Element-B's can either be configured as Normally Closed (NC) or Normally Open (NO) by our team here at Elemental Machines. Different assets require different configurations. If you have ordered Element-B's for multiple assets, you may have a mix and need to be aware of attaching the correctly configured device to the correct asset.

5. Ensure there is an Elemental Machines Gateway set up in the vicinity of the Element-B.
   - Depending on your location and application, your Gateway type may vary. If you have a tablet Gateway, brief setup instructions are given in Appendix 1: Gateway Setup below. If you have a Gateway Model GW2 or GW3, please follow the setup instructions in your Gateway, GW2 or GW3 User Manual
   - **Note:** 'Vicinity' is within wireless connection range. This is usually up to 30 meters but can depend on the lab's layout.

   Attaching Connection Cable to Miltenyi Cell Processing System

6. Locate the External Alarm panel on the back of the instrument as shown in Figure 1.

Figure 1 External alarm connection for Miltenyi Prodigy, located on rear panel

7. Plug the round end of the connection cable into this port. Please note that this cable must be rotated to align with the port.

   Attaching Connection Cable to Element

8. Per your discretion, write the name and/or location of the equipment being monitored on the Element-B. This can be particularly helpful if multiple devices are being installed. Use of a Sharpie is recommended.

9. Plug the thermocouple end (Figure 2) of the connection cable into the Element-B.
   - Note Ensure the (-) and (+) prongs of the thermocouple end are properly matched.

Figure 2 Thermocouple end of Element-B connection cable

10. Pull the battery tab on the Element-B.

    Positioning the Element-B

11. Determine where the Element-B should be placed so that it is not blocked, which allows a better wireless connection, and so that the connection cable is tidy.
12. Securely position the Element-B in the chosen location. The Element-B has magnets which make it easily mountable to magnetic surfaces.
    1. **Note:** If applicable, an adhesive metal mounting plate available from EM may be used.
       Programming Alerts
13. Program alerts on the Miltenyi Cell Processing System. Refer to the Miltenyi Cell Processing System user manual for which alarm conditions the Miltenyi Cell Processing System can detect and how to set up alerts.
14. Set up alert rules on the Elemental Insights Dashboard™ for the Element-B. Guidance on how to do so is available in the Support section of the dashboard.

    NOTE: Alerts must be programmed on both the asset and the Elemental Insights Dashboard™ to receive threshold alerts through the Elemental Machines platform.

Gateway Setup

Elemental Machines provides multiple styles of Gateways. If you have a Tablet Gateway (Model GW1), please follow the setup instructions below. For Gateway-2, please follow the setup instructions in 771-00021 Gateway (Model GW2) User Manual. For Gateway-3, please follow the setup instructions in 771-00034 Gateway (Model GW3) User Manual.
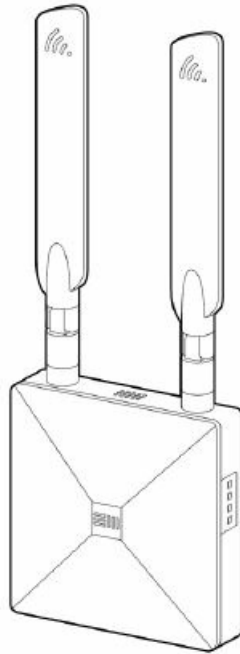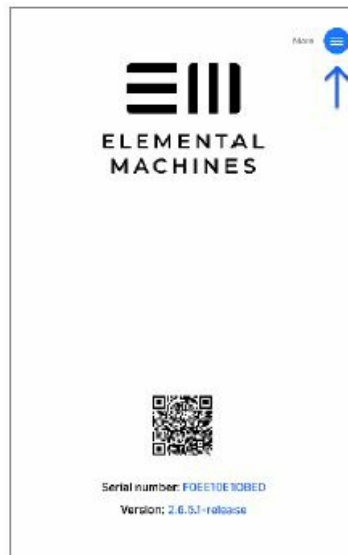

Figure 3 Tablet Gateway (Model GW1)

Figure 4 Gateway-2 (Model GW2)

Tablet Gateway (Model GW1) Software Setup
To power on the Gateway, press and hold the upper right-hand button on the device:
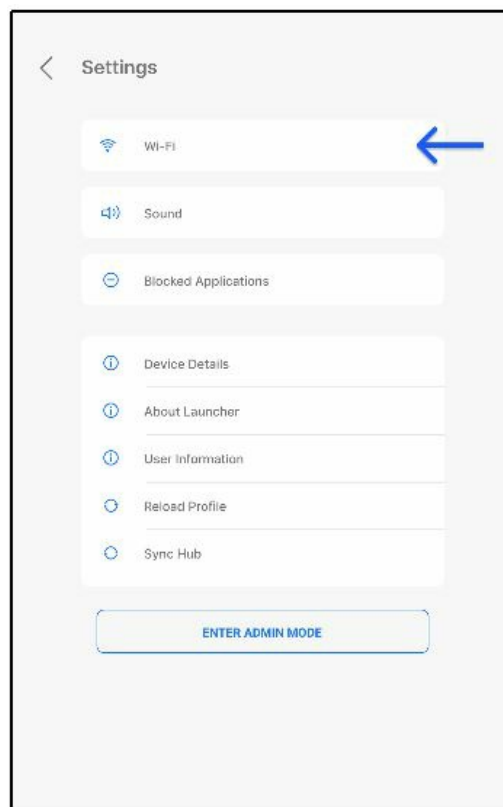
1. Wait for the main screen to come up

2. Press the 'home' button when you see the Elemental Machines Logo

3. Click on the blue circle in the upper right corner (if the circle is not visible, press the hardware home button on the bottom of the tablet to make it appear, or swipe up if you do not have a hardware button):

4. Click on the settings icon:

5. Select WiFi from the list:
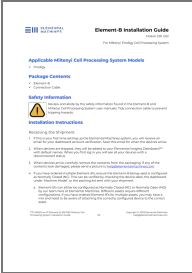

Positioning the Tablet Gateway

Tablet Gateways collect data from the Elements, collating it and transmitting it across the internet to Elemental Machines' Cloud. The tablet Gateways' default is to transmit by Wi-Fi; for added reliability they fall back to Cellular connection when Wi-Fi connection drops out. There is a danger of data delay or even loss if all connection is lost, so tablet Gateways should be positioned where they are getting good Wi-Fi and Cellular connection.

The strength of the Wi-Fi and Cellular connection are displayed by the Wi-Fi icon using Cellular bar icons. These icons are displayed on the tablet Gateway to the left of the battery percentage.

- 4 or more bars for both Wi-Fi and cell indicate good connectivity
- 2 bars for both Wi-Fi and cell runs an increased risk of some data delay or loss
- <2 bars for cell or Wi-Fi carry a danger of significant data delay or loss

Documents / Resources

ELEMENTAL MACHINES EB1 Toxgard II Oxygen Monitor [pdf] Installation Guide
EB1, EB2, EB1 Toxgard II Oxygen Monitor, Toxgard II Oxygen Monitor, II Oxygen Monitor, Oxygen Monitor, Monitor

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