

**ELEMENTAL MACHINES B1 Element-B Fully Automatic Switchover**



# ELEMENTAL MACHINES B1 Element-B Fully Automatic Switchover Installation Guide

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**ELEMENTAL MACHINES B1 Element-B Fully Automatic Switchover**



## Product Information

- **Specifications:**

- **Model:** Element-B
- **Compatible Models:** EB1, EB2 Compatible with Taylor Wharton 10K/24K Cryo Freezers with CS100 controllers
- **Package Contents:** Element-B TW-24K-CS100 Connection Cable

## Product Usage Instructions

- **Installation Instructions:**

- **Receiving the Shipment:**

- Set up your Elemental Machines system and verify your dashboard account via the email received.
- Devices will be added to the Elemental Insights™ Dashboard with default names upon shipment.
- Inspect the contents upon arrival. Report any damages to [help@elementalmachines.com](mailto:help@elementalmachines.com).
- If using multiple Element-B's, ensure correct configuration (Normally Closed or Normally Open).
- Place the Element-B within range of the Elemental Machines Gateway.

- **Attaching Connection Cable:**

- Locate the 'Remote Alarm' port on the Cryo Freezer.
- Connect the green end of the cable to the Remote Alarm port on the Cryo Freezer.
- Write the name/location of the monitored equipment on the Element-B for easy identification.

## FAQs

- **Q: How do I verify if my Element-B is configured as Normally Closed or Normally Open?**
  - **A:** You can check the device label, and dashboard under 'Machine Model', or the packing list sent with your shipment to verify the configuration.
- **Q: What should I do if my devices arrive damaged?**
  - **A:** Please send a picture of the damaged contents to [help@elementalmachines.com](mailto:help@elementalmachines.com) for further assistance.

## Applicable Asset Models

- TW-10K-CS100
- TW-24K-CS100

## Package Contents

- Element-B
- Connection Cable

## Safety Information

- Review and abide by the safety information found in the Element-B and Asset user manuals.
- Ensure compliance with your company's 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. 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](mailto: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.
  - **a.** 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.
  - **a.** Depending on your location and application, your Gateway type may vary. If you have a tablet Gateway, brief setup instructions are given in the appropriate Element-B user manual. If you have a

Gateway Model GW2 or GW3, please follow the setup instructions in your Gateway, GW2 or GW3 User Manual

- **b. 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 Asset

6. Locate the 'Remote Alarm' port on the back of the instrument, as shown in Figure 1.



Figure 1 Remote Alarm port

7. Plug the green end of the connection cable, circled in Figure 2, into the Remote Alarm port.

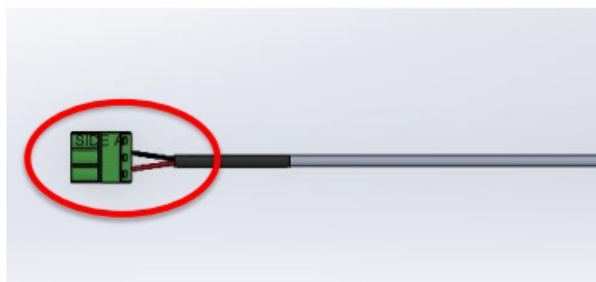


Figure 2 Plug this side of the cable into the Remote Alarm port of the Cryo Freezer

### Attaching the Connection Cable to the 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 of the connection cable, shown in Figure 3, into the Element-B.
  - **a. Note** Ensure the (-) and (+) prongs of the thermocouple end are properly matched.



Figure 3 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.

- **a. Note:** If applicable, an adhesive metal mounting plate available from EM may be used.

### Programming Alerts

13. Refer to the asset user manual for which alarm conditions can be detected.
  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.
- 772-00077 rev 01 Element-B, EB Taylor Wharton 10K/24K LN2 Freezer Installation Guide Copyright © 2024 Elemental Machines [help@elementalmachines.com](mailto:help@elementalmachines.com).
  - **Models:** EB1, EB2
  - For Taylor Wharton 10K/24K Cryo Freezers with CS100 controllers

## Documents / Resources

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|  | <p><b><a href="#">ELEMENTAL MACHINES B1 Element-B Fully Automatic Switchover</a></b> [pdf] Installation Guide EB1, EB1 Element-B Fully Automatic Switchover, Element-B Fully Automatic Switchover, Fully Automatic Switchover, Automatic Switchover, Switchover</p> |
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## References

- [User Manual](#)

### [Manuals+](#), [Privacy Policy](#)

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