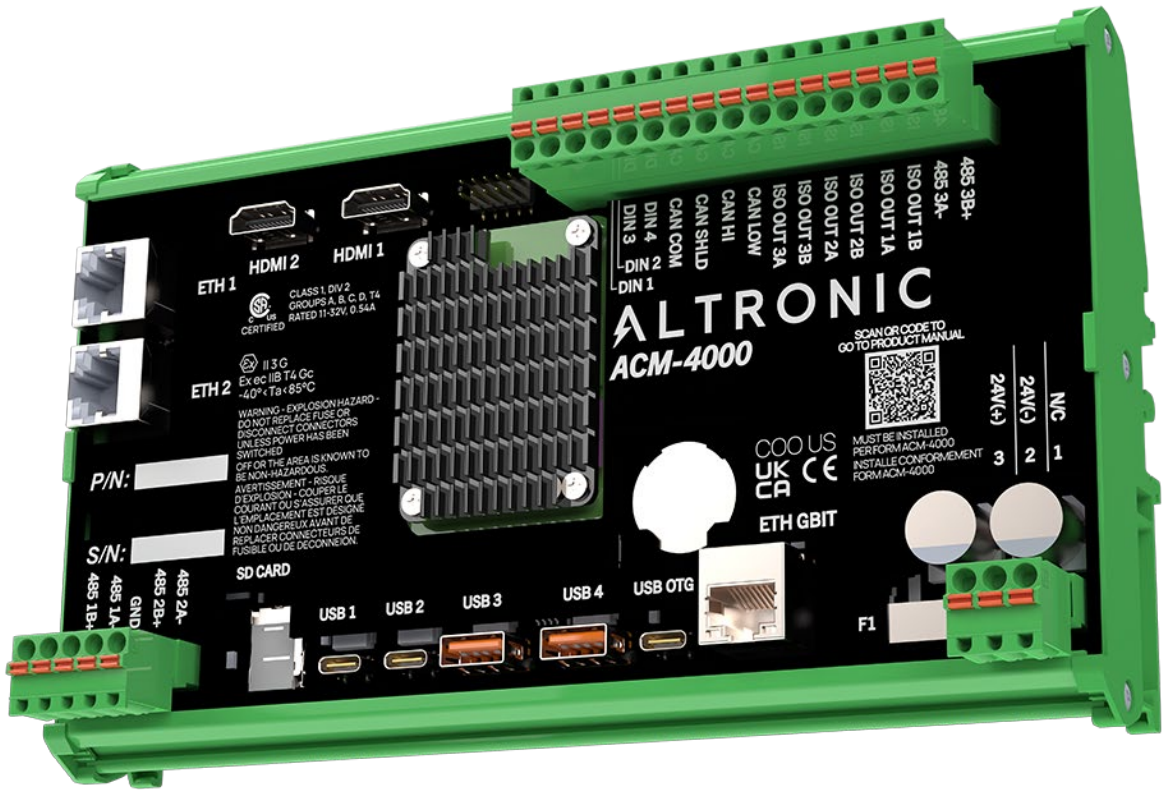
ACM-4000

Altronic Compute Module

Add Multiple AWIs to a Single AWI Button in the MDI

ALTRONIC

www.altronic-llc.com | sales@altronic-llc.com



CERTIFIED
CLASS I, DIVISION 2,
GROUPS C and D

II 3 G
Ex ec IIB T4 Gc
-40° < Ta < 85°C

1.0 Overview

Adding a large number of AWI devices in the ACM-4000 MDI can cause the AWI selection buttons to become so narrow that the labels are difficult to read or tap when using the touch feature. In these cases, it may be necessary to group multiple devices under a single AWI button. This method works well, for example, when setting a SAVeS Smart Vibration Sensor with multiple vibration points (devices).

Follow the step-by-step instructions in the sections below to build multiple AWI devices into one AWI dashboard button. In the examples used in the instructions, we have created a multi-AWI dashboard for a SAVeS setup.

Figure 14

2.0 Adding Multiple AWIs to One AWI Button

2.1 Step 1: Create the Individual Device AWIs

First, you will need to create the base AWI for each product you intend to work with. Once each is created, you will save two versions of the AWI file: a standard, unlocked version and a locked version.

1. Build your AWI.

NOTE: You can download the latest AWI Application release from Altronic GitHub, if needed. For comprehensive instructions on designing and configuring an AWI, refer to the AWI Connection and Interface Manual. Altronic also has pre-built AWI device dashboards in the Altronic GitHub.

2. Once your AWI is complete, click the **Application button** in the left sidebar. See *Figure 1*.
3. Name the file, enter a version number, and add any notes desired. **NOTE:** Do NOT select any of the checkboxes at the bottom. This will be your unlocked version. See the example in *Figure 1*.
4. Click the **Download button** to save the unlocked HTML file.

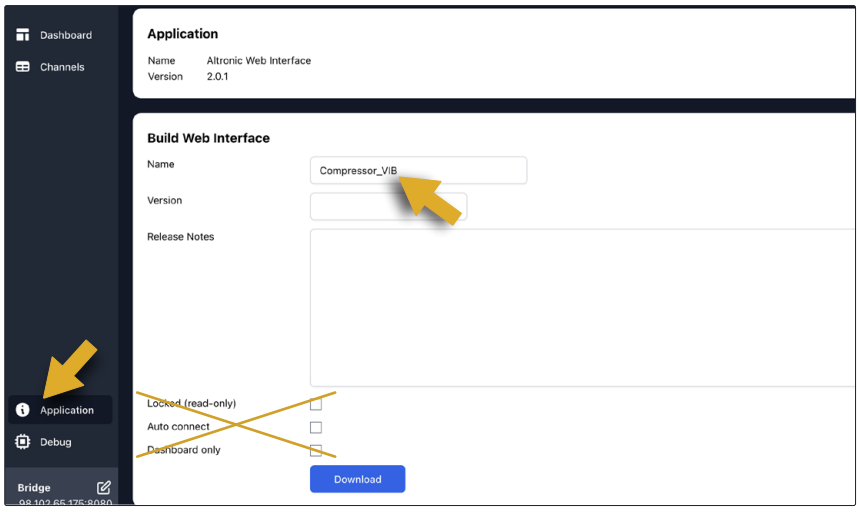


Figure 1

Next, you will need to save a locked version of the AWI:

1. Click the **Edit Bridge Settings** button in the left sidebar to set the following communication settings (see *Figure 2*):
   a. **Bridge Address:** We recommend using 98.102.65.175 (this is the standard default GBIT port IP address).
   b. **Bridge Port:** 8080

c. **Device Id "Proxy Node":** This is the proxy node that is automatically assigned when you add a device (AWI) to the ACM-4000. This can be changed at any time; however, for this step, you must know the proxy node in advance. In the example below, we used "10".

2. Click the **Connect button** to return to the Application screen.

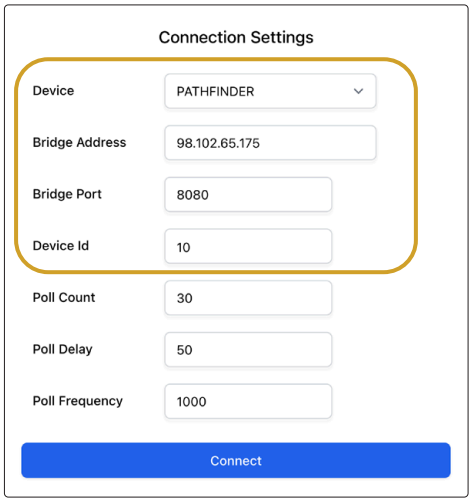


Figure 2

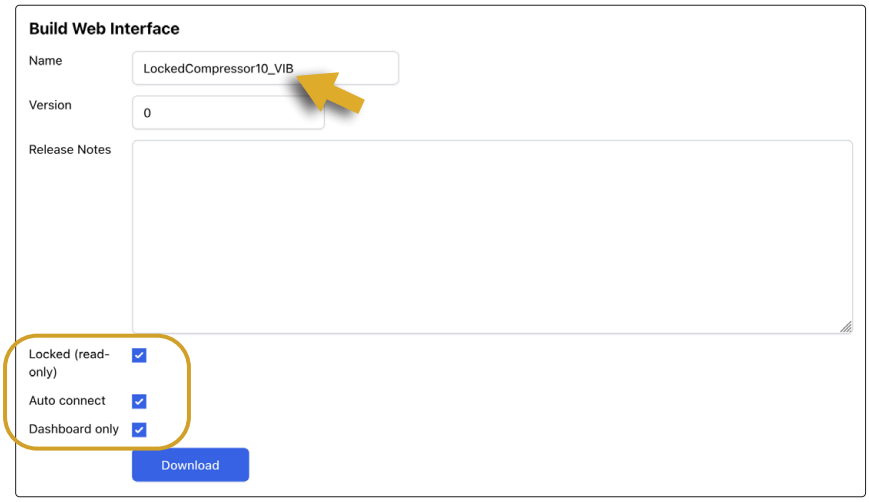


Figure 3

3. Edit the name for the locked version. We recommend adding "Locked" and the proxy node ID you intend to use to the file name. In our example, the file name is "LockedCompressor10_VIB" because we'll be using proxy node 10.
4. Select all three checkboxes: **Locked (read-only)**, **Auto Connect**, and **Dashboard Only**. See *Figure 3*.
5. Click the **Download button** to save the locked HTML file.
6. Create and save locked and unlocked versions for each AWI device you would like to group in a single MDI button.

2.2 Step 2: Build a Custom Multi-AWI Dashboard

In this step, you will build a custom AWI dashboard that will allow you to access all your devices via a single button in the MDI.

1. Open the AWI App.
2. Select the device type from the **Device dropdown list**. In this example, we have selected the SAVeS device "Pathfinder".
3. Input the following settings (as shown in our example in *Figure 4*):
   a. **Bridge Address:** 98.102.65.175
   b. **Bridge Port:** 8080
   c. **Device Id "Proxy Node":** This does not need to be a specific number, but must be unique. We used "1" in our example.
4. Click the **Connect button** to open the blank AWI dashboard.
5. Click the **Edit button** in the top-right corner to enter dashboard-edit mode.
6. Create a button-sized element in the first block, and select **AWI File Button** for the element type. See our example in *Figure 5*.

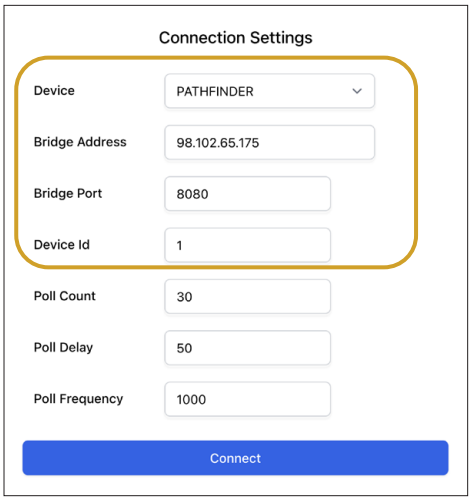


Figure 4

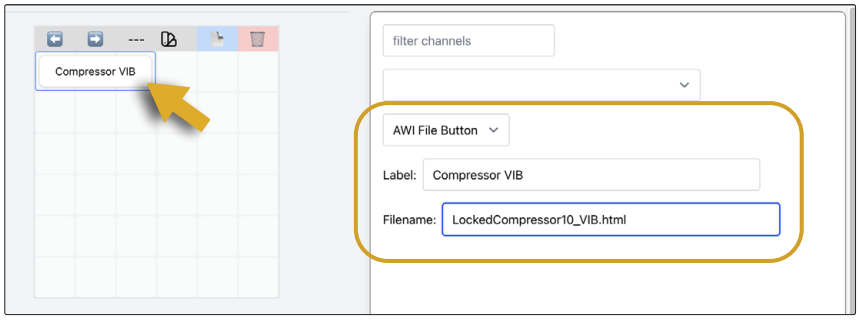


Figure 5

7. Enter a label for the button. You can use any name you want.
8. Enter the file name for the locked AWI file you saved. **NOTE:** The file name must match your saved file exactly, including the extension format (.html). See the example in *Figure 5*.
9. Repeat this process to create a button for each of the device AWIs you will need. Our example in *Figure 6* is a multi-AWI dashboard for a large SAVeS setup; each SAVeS vibration point (device) has its own button on the dashboard.

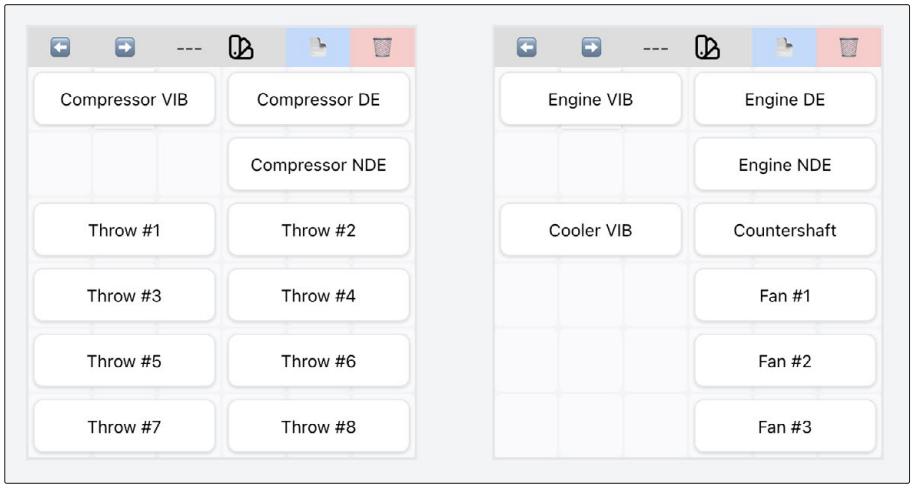


Figure 6

10. Once completed, click **Application** in the right sidebar to save the button AWI file.
11. Name the file (you may want to add "dashboard"), and add a version number and any notes. **Do NOT select any of the three checkboxes when saving the file.**
12. Click the **Download button** to save the HTML file.

2.3 Step 3: Import All the AWIs into the MDI Section of the ACM-4000

Follow the steps below to import all of the AWIs into the MDI.

2.3.1 Add Each Unlocked AWI File

First, you will need to add each unlocked AWI file as a new device in the MDI:

1. Open the ACM-4000 IP address in your web browser: **98.102.65.175:3000/awi** to access the embedded web interface.
2. Click the **MDI Configuration Menu button** in the bottom-right corner to open the MDI Configuration interface.
3. On the Devices screen, click the **Add New Device button**, and select the first unlocked AWI HTML. See *Figure 6*.

Figure 7

4. Click the device summary card, and edit the device settings to the following (see *Figure 8*):
   a. **Name:** Change the name as needed to help you identify the individual device.
   b. **Protocol:** Select the protocol.
   c. **RTU Port:** Enter the intended port.
   d. **Node Id:** Enter the node address for the device.
   e. **Proxy Node Id:** Enter the proxy node id you used in the locked AWI file.

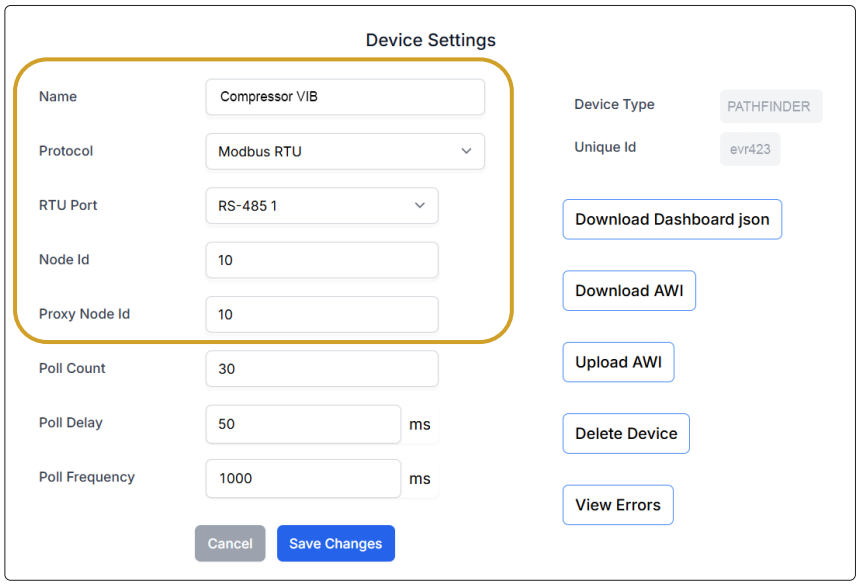


Figure 8

5. Click the **Save Changes button**.
6. Repeat the above steps to add each unlocked device.

2.3.2 Add the Custom Multi-AWI Dashboard

Next, you will need to add the custom multi-AWI dashboard file:

1. Click the **Add New Device button**, and select the multi-button dashboard AWI you created.
2. Click the device summary card to edit the device settings, as needed. See *Figure 9*. **NOTE:** Remember the name field will populate the AWI button label. We've changed the name of our dashboard device to "SAVeS".

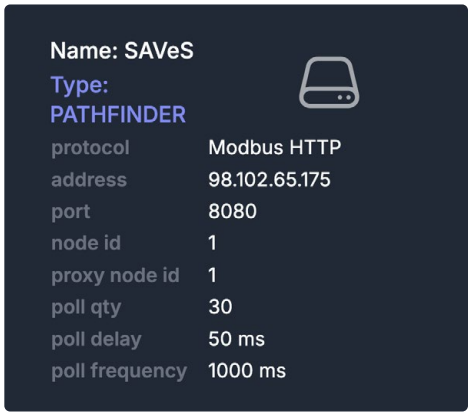


Figure 9

2.3.3 Import the Locked AWIs

Now, you'll need to import all of the locked AWI files:

1. Click the **Settings button** in the navigation sidebar of the MDI Configuration menu to open the Settings screen.
2. Scroll to the bottom of the settings screen, and click the **Upload Additional .html File button**. See *Figure 10*.

Figure 10

3. Select the first locked AWI file you created.
4. Repeat this step for each locked AWI.

2.3.4 Set Up the AWI Sidebar Layout and Buttons

1. Click the **Layout button** in the navigation sidebar to open the Layout screen.
2. Delete any unwanted AWI buttons:
   a. Click the dropdown list and select **(remove)** at the top of the list to delete the button. See *Figure 11*.
   b. Click the **Save button** to save your changes.

Figure 11

3. Power cycle the ACM-4000.

2.4 Using the New Multi-AWI Dashboard

1. After rebooting, you will see the new multi-AWI dashboard button in the AWI sidebar on the right side of the screen. See *Figure 12*.

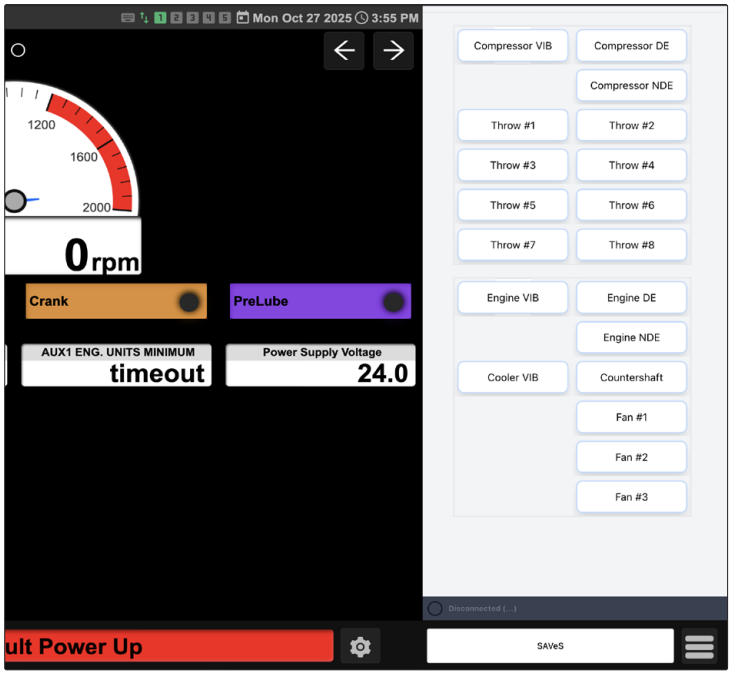


Figure 12

2. If another AWI device is selected, click the multi-AWI button to select and open your custom dashboard.
3. Select one dashboard button at a time to change the device that appears in the AWI sidebar. See *Figure 13*.

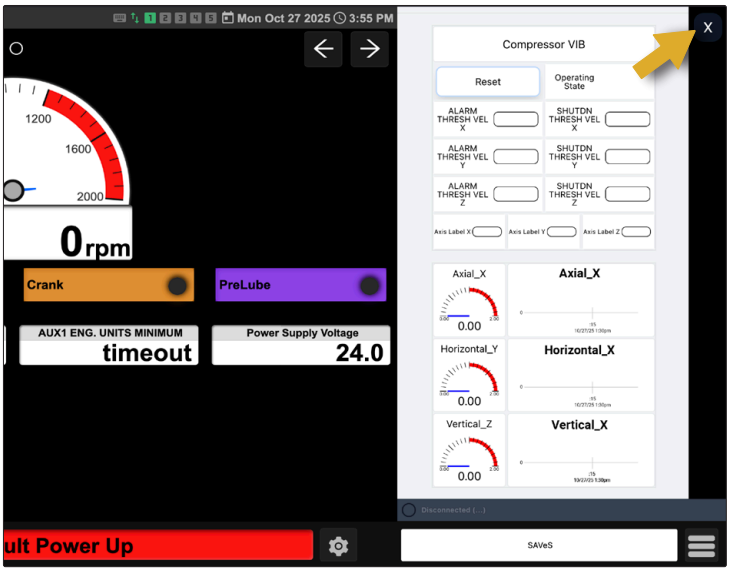


Figure 13

4. Click the **Close** (X) **button** in the top-right corner to close the embedded AWI and return you to the main AWI sidebar view.

NOTE: To aid with building this setup for the SAVeS, we have created AWI multi-tab files for all devices shown on the button example above.

712 Trumbull Avenue I Girard, Ohio 44420
(330) 545-9768 I Fax: (330) 545-9005
www.altronic-llc.com I sales@altronic-llc.com

ALTRONIC