



## Adaptive Reef 24v Apex Status Indicator System Instructions

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AdaptiveReef

### Adaptive Reef 24v Apex Status Indicator System

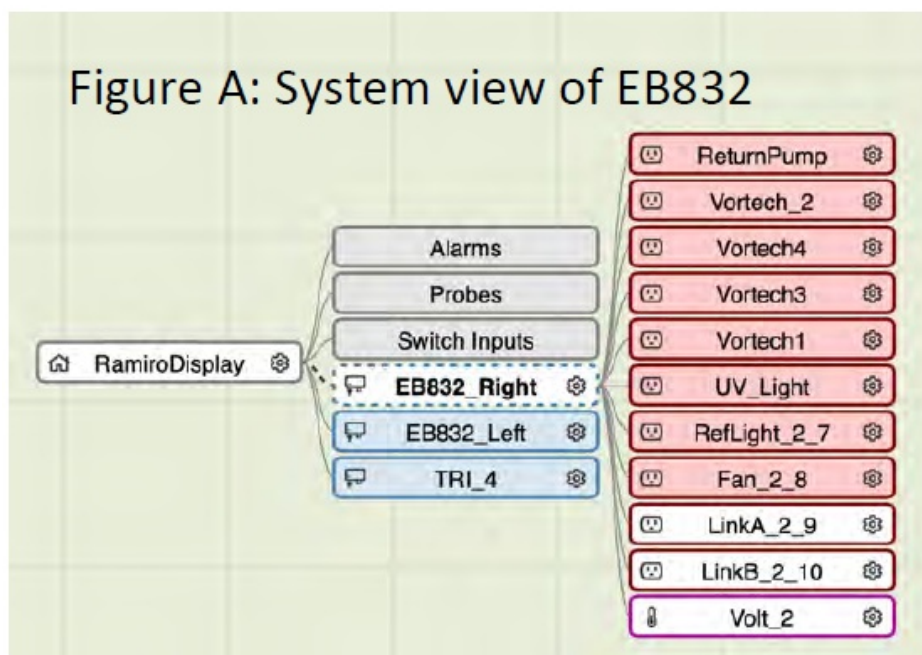


24v ports are available on the EB832, FMM\*, and 1link\* module

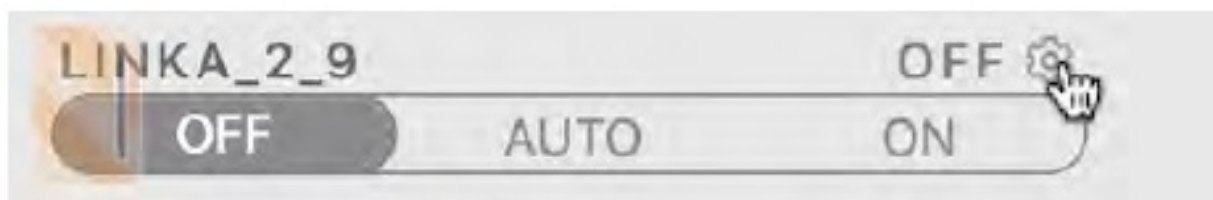


## Finding & Naming the 24v Ports:

If you do not know the name of the 24v accessory ports on any of these modules (eb832, FMM, 1link), you can use the system view to find the outputs. In Figure A, you can see LinkA\_2\_9 is the upper accessory port on the Eb832, and LinkB\_2\_10 is the lower port. Note that these can be renamed to be more meaningful.



If you would like the 24v port outlet on your dashboard (optional), use the icon on your home page to see available tiles. Scroll until you find the 24v outlets, shown below. Then you can drag them onto your dashboard. To rename them, click the gear outlet controls.



Now you can name them something meaningful, based on what you plan on plugging into that port. I suggest something like "GreenLED", "RedLED", "RedSiren", etc.

Before:



Output Configuration

Output

Device: 2\_9

Location: 24VDC Accessory Output A on the Energy Bar 832 named EB832\_Right at Aquabus address 2.

Name: LinkA\_2\_9

Icon: Up/Down Arrows

Control Type: Advanced

Log: Enable

After



Output Configuration

Output

Device: 2\_9

Location: 24VDC Accessory Output A on the Energy Bar 832 named EB832\_Right at Aquabus address 2.

Name: RedLED

Icon: Up/Down Arrows

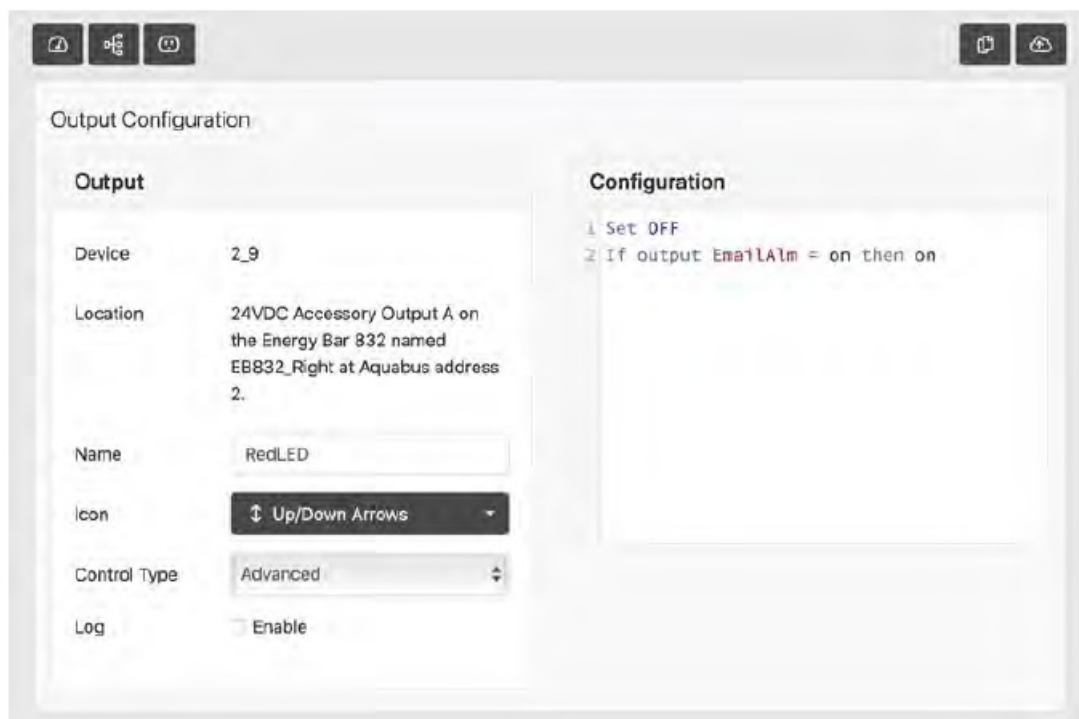
Control Type: Advanced

Log: Enable

### Programming the 24v port based on an existing alarm outlet:

Many Apex users already have set up an alarm outlet with conditions that will notify them. You can program your 24v port to just refer to this alarm outlet, without having to copy over all the data and in the future need to modify both outlets.

### Example alarm outlet named “EmailAlm”:



Output Configuration

Output

Device: 2\_9

Location: 24VDC Accessory Output A on the Energy Bar 832 named EB832\_Right at Aquabus address 2.

Name: RedLED

Icon: Up/Down Arrows

Control Type: Advanced

Log: Enable

Configuration

```
1 Set OFF
2 If output EmailAlm = on then on
```

### Example for 24v port “RedLED”:

To get your 24v port that we previously named “RedLED” to turn on when that alarm is on (in this case named EmailAlm), you would need to use the advanced code option. Add “Set Off” and “If output EmailAlm= on then on” to the configuration, and upload.

The screenshot shows the 'Output Configuration' window. On the left, the 'Output' section contains the following fields: 'Device' set to '2\_9', 'Location' set to '24VDC Accessory Output A on the Energy Bar 832 named EB832\_Right at Aquabus address 2.', 'Name' set to 'GreenLED', 'Icon' set to 'Up/Down Arrows', 'Control Type' set to 'Advanced', and a 'Log' checkbox which is unchecked. On the right, the 'Configuration' section contains a list of two items: '1 Set on' and '2 If output EmailAlm = on then off'.

### Example for 24v port “GreenLED”:

To get your 24v port we previously named “GreenLED” to turn OFF when that alarm is on (in this case named EmailAlm), you would need to use the advanced code option again. However, this time put “Set On” and “If output EmailAlm= on then off” to the configuration, and upload.

The screenshot shows the 'Output Configuration' window. On the left, the 'Output' section contains the following fields: 'Device' set to '2\_10', 'Location' set to '24VDC Accessory Output B on the Energy Bar 832 named EB832\_2 at Aquabus address 2.', 'Name' set to 'GreenLED', 'Icon' set to 'Up/Down Arrows', 'Control Type' set to 'Advanced', and a 'Log' checkbox which is unchecked. On the right, the 'Configuration' section contains a list of two items: '1 Set ON' and '2 if output RedLED = on then off'.

### Programming the 24v port based on inputs:

If you do not want to just associate your LED/Audible status indicator with an existing alarm outlet, you can add conditions that determine when the LED turns on. This includes inputs such as temperature, salinity, pH, ORP, wattage of specific devices, switch status, error conditions for Trident or ATK, etc. This is an example of alarm conditions on the RedLED outlet that turns it on when any are true. **Note** that it will fallback “on”; if it loses connection to the Apex head unit, the red LED will activate.

### Output Configuration

Output

Device

2\_9

Location

24VDC Accessory Output A on the Energy Bar 832 named EB832\_2 at Aquabus address 2.

Name

RedLED

Icon

↕ Up/Down Arrows

Control Type

Advanced

Log

☐ Enable

Configuration

```

1 Fallback on
2 Set OFF
3 If TnkTmk < 76.0 Then ON
4 If TnkTmk > 81.0 Then ON
5 If pH < 7.60 Then ON
6 If pH > 8.40 Then ON
7 If Sw6 CLOSED Then ON
8 If Error Trident_6_3 Then ON
9 If Error Return_Pump Then ON

```

Then for the GreenLED (If you have the dual-LED model), you would want it to be set on, but turn off if any condition of the RedLED turns on the RedLED outlet.

### Output Configuration

Output

Device

2\_10

Location

24VDC Accessory Output B on the Energy Bar 832 named EB832\_2 at Aquabus address 2.

Name

GreenLED

Icon

↕ Up/Down Arrows

Control Type

Advanced

Log

☐ Enable


Configuration

```

1 Set ON
2 if output RedLED = on then off

```

## Documents / Resources

 <p><b>Adaptive Reef</b></p> <p>24v Apex Status Indicator System</p> <p>Contents:</p> <ul style="list-style-type: none"> <li>1 x 24v Apex Status Indicator System</li> <li>1 x 24v Apex Status Indicator System</li> <li>1 x 24v Apex Status Indicator System</li> </ul> <p>Thank you for your purchase!</p>	<p><a href="#">Adaptive Reef 24v Apex Status Indicator System</a> [pdf] Instructions</p> <p>24v Apex, Status Indicator System, 24v Apex Status Indicator System</p>
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