



ABMHZ 115 908, ABMHZ 115 868 ABMHZ 230 908, ABMHZ 230 868 Version 2+1 Quick Setup

The ABMHZ motor controller is compatible with other Z-wave™ enabled devices. Connect the ABMHZ unit according to the *ABMHZ Specifications & Installation Instructions*. When the unit is powered on, the Status LED and Motor LED provide operational feedback:

Power-up

- On power-up, Status LED will blink **RED** then **GREEN** indicating Z-Wave processor Version 2, and the Motor LED will blink **RED** once indicating motor processor Version 1.

Status LED

- This LED will blink **GREEN** on reception of a valid Z-Wave command.
- This LED will blink **RED** if an error has occurred.

Motor LED

- This LED will stay **RED** after power-up if the unit is not calibrated.
- This LED will be **GREEN** when ready for calibration (see Calibration Procedure below and Calibration Section in *ABMHZ V2+1 Advanced User Manual*).

The ABMHZ controller will operate manually using the OPEN and CLOSE buttons on the side of the case. After confirming manual operation, please note the following:

- Mechanical motor limits must be set before performing the calibration sequences below.
- If the Motor LED is **RED**, the unit requires calibration in order to operate correctly.
- Verify OPEN button opens shade and CLOSE button closes shade. If directions are swapped, see "Reverse Direction" in Calibration Procedure below.

Calibration Procedure

1. Simultaneously press and hold both OPEN and CLOSE for at least 10 seconds until Motor LED turns solid **GREEN**.
2. Release both OPEN and CLOSE.
3. Within 10 seconds press and release CLOSE to start the calibration sequence. (Press and release OPEN instead to set motor option to the "Reverse Direction" and start the calibration sequence.)

The calibration sequence will run the motor from one limit to the other and end with the shade closed, motor off, and Motor LED off.

Z-Wave Network Include/Exclude

To utilize the DBMHZ in a Z-Wave network requires the "Include" process. For INCLUDE, place the primary controller into the INCLUDE mode and do a quick press of the LEARN button on the side of the ABMHZ unit (Z-Wave STATUS LED will flash **GREEN**). For "Exclusion", place the primary controller into the EXCLUDE mode and do a quick press of the LEARN button (Z-Wave STATUS LED will flash **GREEN**). **Warning: Always EXCLUDE the ABMHZ motor controller before disconnecting it from the Z-Wave network.**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Electronic Solutions, Inc. could void the user's authority to operate the equipment.

Z-Wave 868MHz certification number is ZC08-09050005 / Z-Wave 908MHz certification number is ZC08-09050006