Qmotion[®]

Z-Wave Automated Roller/Honeycomb Shade Operation Manual

For model numbers QMRS-908-3, QMRS-908-4, QMRS-908-6, QMRS-908-8, QMHCS-908-4, QMHCS-908-6

4

FCC/IC IDs

FCC ID: 2AHG4-QMRS-908, IC: 21161-QMRS-908 FCC ID: 2AHG4-QMHCS-908, IC: 21161-QMHCS-908

Revision G

3/24/2016

TO OUR CUSTOMER

It is our mission to bring you a high quality product that fits our high standards for innovation, beauty and simplicity. To do so we have released our Second Generation QMotion® Automated Roller Shade to bring you a great shade experience. This design has many features that you may or may not have noticed that will make your shade more reliable and ready for our future development plans.

If this is your first time purchasing QMotion[®] shades, we invite you to view our first time setup document located at the web address below:

http://qmotionshades.com/support.php

QMotion® Customer Service

Contact us Monday-Friday **1-877-849-6070** 8:00a.m. - 6:00p.m. (U.S. Central Time)

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Z-Wave

Z-Wave Specifications



- Z-Wave® is a registered trademark of Sigma Designs Inc. and/or its subsidiaries.
- This product can be included and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.
- To Add this device to a Z-Wave Network: Please see the section titled "FIRST TIME SETUP (Z-Wave ADD)" in this document.
- To Remove this device from a Z-Wave Network: Please see the section titled "To REMOVE shade from controller (Z-Wave REMOVE)" in this document.
- Replication is the process of copying or transferring your Z-Wave network from one controller to another.
- ASSOCIATION: This product supports one Group with five Nodes for lifeline communication. Group 1 must be assigned the Node ID of the controller to which unsolicited notifications from the device will be sent. The Z-Wave controller should set this association automatically after inclusion. You can associate up to five Z-Wave devices to Group 1. Lifeline association supports the "device reset locally" and "low battery notification" events.

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Z-Wave

Programming Instructions

advanced shading systems



Read and understand each section before performing required steps

During **FIRST TIME SETUP** after **Step 3. TUG**, a Z-Wave Plus controller must be paired to the shade within 90 seconds. Otherwise, the shade will time-out and require another attempt. JOG is a short up and down movement. A double JOG from the current position will indicate failure on the device add. The process should be restarted if the expected results differ or a double jog failure indication is received.

FIRST TIME SETUP (Z-Wave ADD)

- 1. INSTALL SHADE following the shade installation instructions.
- 2. Place the Z-Wave controller into ADD device mode.
- 3. Now perform two micro tugs, short pause between them. (Shade will move to Upper Limit Position, then down a small amount)
- Now perform one short tug and wait for 5 seconds. (Shade will move to Upper Limit Position, then down a small amount)
- Now the Z-Wave controller will query new device. (Controller signals that a new device has been discovered)

SETTING LOWER LIMIT (Only if shade has never been added to a controller)

- **1. Slowly TUG** the **HEMBAR** to the **lower limit** position (Shade should move smoothly to fully closed position and remain)
- 2. From the Z-Wave controller, select the newly added device.
- 3. Command shade to a position that is NOT On or Off. (Shade will move to fully open position, jog and back to full open)

To REMOVE shade from controller (Z-Wave REMOVE)

- 1. Place the Z-Wave controller into REMOVE device mode.
- 2. Now perform two micro tugs, short pause between them. (Shade will move to Upper Limit Position, then down a small amount)
- 3. Now perform one short tug and wait for 5 seconds. (Shade will move to Upper Limit Position, then down a small amount)
- 4. Now the Z-Wave controller will remove the device. (Controller signals that a new device has been removed)



Lower Limit Position should be set after the first ADD of the device by using the FIRST TIME ADD procedure. The double job action is an indication of failure and the process is aborted. If the expected results differ or a failure is indicated, restart the calibration process.

SHADE CALIBRATION (setting lower limit)

- Now perform two micro tugs, short pause between them. (Shade will move to Upper Limit Position, then down a small amount)
 Now perform two short tugs (pause between) and wait for 5 seconds.
 - (Shade will move to Upper Limit Position, then down a small amount)
- 3. Set desired closed position.
 - **A.** From Z-Wave Controller:
 - 1. Use On/Off controls to nudge the shade towards the desired close position
 - **B.** Manually from shade:
 - 1. Roll or Pull shade to desired closed position
 - (Shade should remain at the set location)
- 4. From the Z-Wave controller, select the device to calibrate.

5. Command shade to a position that is NOT On or Off.

(Shade will move to fully open position, jog, and back to full open)



When unrolling the shade to expose battery cover, the shade may try to roll upward. Hold the **FABRIC ROLL TUBE** firmly in place to resist the initial upward movement, then continue to unroll the **FABRIC ROLL TUBE** to expose battery cover.

BATTERY REPLACEMENT

- **1. Now perform two micro tugs, short pause between them.** (Shade will move to Upper Limit Position, then down a small amount)
- 2. Now perform four short tugs (pause between) and wait for 5 seconds. (Shade will move to fully open position, jog, and back to full open)
- 3. Shade will go into battery replacement mode and should not respond to tugs. (Battery replacement mode will be exited on next power up)

4. Proceed with battery replacement.

- (As soon as batteries are installed the shade should move to fully open and stop)
- 5. UNROLL the FABRIC ROLL TUBE to expose the battery cover (See IMPORTANT information above)
- 6. REMOVE battery cover and REPLACE with new NEW D-CELL Alkaline batteries
- 7. REPLACE battery cover

(Shade will now move to fully open and remain paired to controller)

FACTORY (MASTER) RESET (Will remove **ALL** paired controllers and calibration settings) (Shade at Upper Limit Position)

- **1. Perform two micro tugs, short pause between them.** (Shade will move to Upper Limit Position, then down a small amount)
- 2. Now perform eight short tugs (pause between) and wait for 5 seconds. (Shade will move to fully open position, jog, and back to full open)

Z-Wave Operating Notes

TUG COMMAND MODES

- 1. Tug hem bar 2 times within 800ms to enter command mode
- 2. Shade responds to signal command mode entry (Jog**)
- 3. Shade will time-out after 5 seconds of inactivity and perform command failure response (Jog**)
- 4. Once Shade enters command mode, perform additional Taps/Tugs to send commands
 - A. Add/Remove shade —1 additional
 - B. Calibrate 2 additional
 - **C.** Battery Change Mode 4 additional
 - D. Z-Wave Reset 6 additional
 - E. Factory Reset 8 additional
- ** Shade will perform command after a 5 second time-out from last Tug

OPEN/CLOSE SHADE FULLY WITH CONTROLLER

- 1. From Z-Wave controller panel select "multi-level switch device"
- 2. Select specific shade from list
- 3. Select On/Off to Open/Close respectively

OPEN/CLOSE SHADE FULLY MANUALLY

1. Short Tug once to open shade fully (no manual close)

SHADE INTERMEDIATE POSITIONS

- 1. From Z-Wave controller panel select "multi-level switch device"
- 2. Select specific shade from list
- 3. Use dimming or fixed intermediate position buttons

Z-WAVE RESET

- 1. Initiate Tug command mode, verify shade performs command mode entry action
- 2. Tug additional 6 times
- 3. Shade should perform command completion or failure action
- After successful RESET, all shade calibration setting and Z-Wave setting are cleared, and the shade goes into low power mode.

Z-WAVE MODULE FIRMWARE UPDATE OVER-THE-AIR (OTA)

1. Supported on Z-Wave Plus controller for Z-Wave module firmware only

Glossary

Fascia

The removable covering that hides the internal shade components and battery holder.

Long Tug

Tug shade hembar more than 2 inches. A long tug will cause the shade to stay at the position it was tugged to. Two long tugs done within 10 seconds of each other will send the shade to the upper limit position.

Micro Tug

Tug shade hembar up to 1 inch. A micro tug will send the shade to the next highest position

Short Tug

Tug shade hembar 1 to 2 inches. A short tug will send the shade to the upper limit position

Hard Stop

A hard stop is the mechanical means by which the shade identifies the maximum upper limit.

REGULATORY INFORMATION

FCC & IC Notice

This device complies with Part 15 of the FCC Rules and Industry Canada license exempt standard(s). 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 received that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician to help.

WARNING:

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

> CONTACT INFORMATION QMotion 3400 Copter Road Pensacola, Florida 32514 850-208-3400

Revision History

- Revision A 2/03/16: Created
- Revision B 2/08/16: Modified
- Revision C 2/16/16: FCC/IC, Address info, misc.
- Revision D 3/09/16: Added Z-Wave Specification on Page 4, updated TOC
- Revision E 3/21/16: Edited for current Z-Wave implementation
- Revision F 3/24/16: Updates based on review
- Revision G 3/24/16: Updates specific for Drapes