

MIMOConfig

MIMO2+ Configuration Helper Manual



Introduction

The MIMO2+ Configuration Utility (MIMO2Config) provides an easy way to determine the main configuration parameters used by the MIMO2+ module. MIMO2+ is an interface / bridge module, capable of converting a wired or wireless input to a wired or wireless output. The MIMO2+ is a Z-Wave™ Wireless device compatible with other Z-Wave™ certified products.

After using MIMO2Config to determine the configuration parameters, you must use your Z-Wave™ controller to store the new parameters into the MIMO2+. Refer to your controller's instruction manual or help screens for instructions on changing a node's configuration parameters. The controller does this by sending each new parameter, after you enter it, to the MIMO2+ using the Z-Wave™ Configuration Command Class 'Set Command'.

System Requirements

This manual applies to the FortrezZ MIMO2+ and v1.0 of the MIMO2Config software. A Microsoft Windows (XP or later) PC is needed to install and run the MIMO2Config software. Understanding how to use your controller and including the MIMO2+ into an operational Z-Wave™ network are also necessary, but are not described in this document.

MIMO2Config Installation

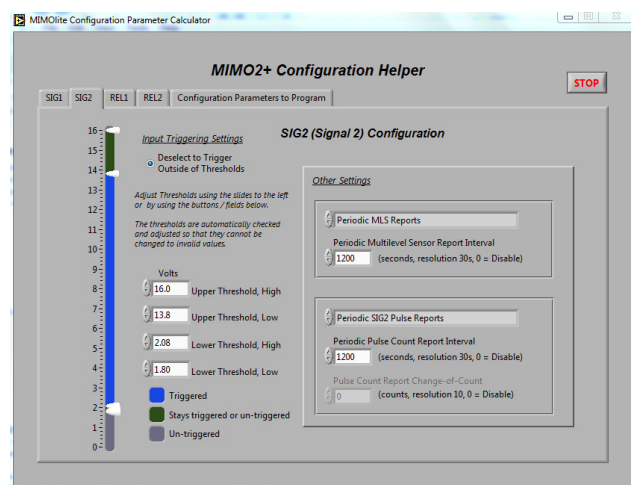
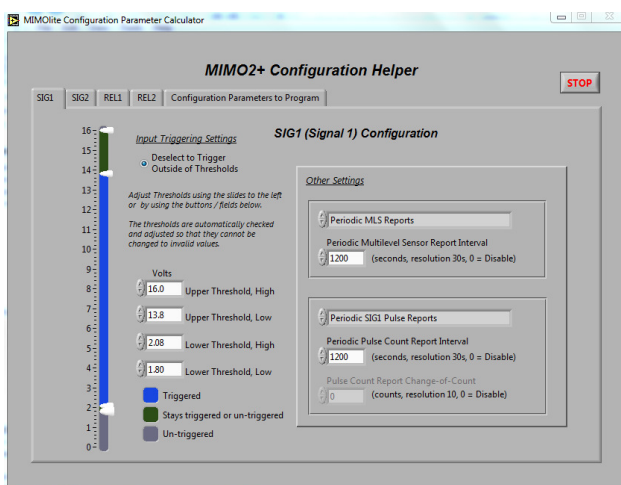
Download and unzip the **MIMO2configInstaller.zip** file from the FortrezZ, LLC website (www.fortrezz.com). Go to the *MIMO2configInstaller* directory and double-click on *setup.exe*. If the MIMO2config program is already installed (an earlier version, for example), the installer will first uninstall the program. If this is the case, after it is uninstalled, double-click on *setup.exe* again. Follow the installer prompts as necessary to complete the installation.

MIMO2Config Usage

The MIMO2Config utility provides multiple tabbed screens which allows settings to be selected for various configurations and shows the results of those selections on the last tab. When the selections are changed, the corresponding parameters are automatically calculated in the last tab. These configuration parameters are what you will need to enter into your controller to send to the MIMO2+ using the controller's Configuration Command Class. Please refer to the MIMO2+ Technical Appendix documentation found on the FortrezZ, LLC website (www.fortrezz.com).

Input Signal Settings

The selections in these tabs allow the triggering thresholds for the two inputs (SIG1 and SIG2) of the MIMO2+ to be selected. Configuration parameters 3 through 8 (for SIG1) and 9 through 14 (for SIG2) are affected by changes on these tabs. Examples of these screens are shown below.



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The input triggering thresholds can be selected by either moving the sliders, by entering the values (in volts), or by clicking on the up/down arrows by the value fields. The values shown and the conversion to corresponding configuration parameters are typical values and may vary somewhat from unit to unit.

The range is color-coded on the slider so that it is easy to tell where the triggered range (blue) is and where the un-triggered range (gray) is. The green area indicates the hysteresis zones where, if the input signal is transitioning from triggered to un-triggered, it will stay triggered while in the green area. Similarly, if the input signal is transitioning from un-triggered to triggered, it will stay un-triggered while in the green area. The color-coding automatically changes depending on whether triggering between or outside-of the threshold is selected.

The inputs are checked so that the sliders cannot be moved to an invalid point. So, for example, the 'Lower Threshold, High' must always be greater than 'Lower Threshold, Low' and must always be less than the other thresholds. If a slider is moved to an invalid point, it will be automatically corrected to a half-way point between its boundaries. MIMO2+ does not check for valid values, so it is important that all values be sent or checked to avoid erroneous thresholds.

The 'Other Settings' box provides a way to configure how the MIMO2+ reports the status of the input signals. Periodic reports can be enabled to provide a report of the input level on a periodic basis. Or, the MIMO2+ can report whenever the input changes trigger state which is dependent on the current threshold settings. Additionally, the MIMO2+ can report the Pulse Count report on a periodic basis or whenever the pulse count changes by more than X counts. The selections can be made by clicking on the boxes and selecting the desired configuration or by using the scroll buttons. The appropriate values for periodic reports should be entered (in steps of 30 seconds) or for change of pulse count (in steps of 10 counts).

These reports are also dependent upon association configurations (Group 1, Lifeline) so both the configuration parameter and the association must be set up. Please refer to your controller instructions to determine how to set up associations, in addition to the configuration changes.

Relay Settings

These screens allow the relay configurations to be determined. The top field allows the relay to be configured for either latched or momentary control. That is, if a non-zero value is entered in this field, the relay will not stay permanently latched when a command is sent to it. It will instead latch for only the time set in this field. The value is in seconds with a resolution of 0.1 second. The second field is a selection to allow input(s) to automatically trigger the relay output. When this is set for SIG1 or SIG2 or both, the ZWave command is overridden. Parameters 1 (for REL1) and 2 (for REL2) are affected by changes in these screens.

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SIG1 SIG2 REL1 REL2 Configuration Parameters to Program

STOP

REL1 (Relay 1) Configuration

Relay Momentary Latch Interval
0 (seconds, resolution 0.1s, 0 = Stays Latched)

Input to REL1 mapping
None

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SIG1 SIG2 REL1 REL2 Configuration Parameters to Program

STOP

REL2 (Relay 2) Configuration

Relay Momentary Latch Interval
0.5 (seconds, resolution 0.1s, 0 = Stays Latched)

Input to REL2 mapping
None

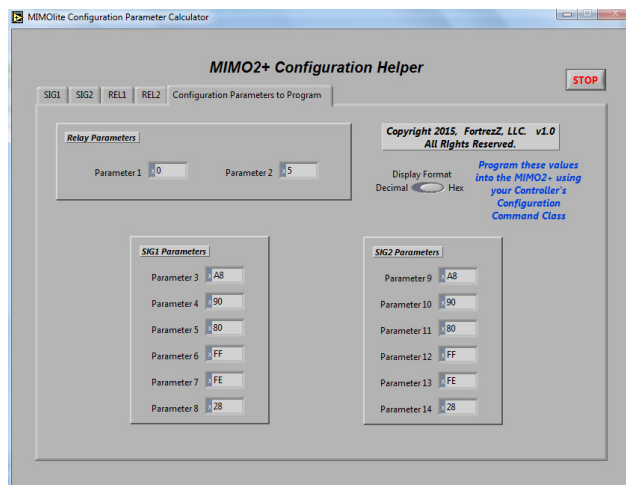
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Output Parameters to send to MIMO2+

The values displayed in this area are what you should enter into your controller so that it can send them to the MIMO2+. Again, please refer to your controller instructions to determine how to do this. The slider at the top right of this area allows the values to be displayed in decimal or hexadecimal format for your convenience. (Some controllers might require entry in one or the other format.)



Stop Button

The stop button at the bottom right of the screen is used to terminate the MIMO2Config utility program. Your selections will be 'remembered' for the next time you start up the program.

Information provided in this Manual is for your convenience, may be superseded by updates, and is subject to change without notice. It is your responsibility to ensure that the MIMO2+ / MIMO2Config functionality meets your needs and specifications.



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