



## Welcome to NAVI Solutions

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## Trademark

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## FCC Requirements

The NS-RMC7XX is classified under FCC regulations as a Class A device for use in commercial environments. This device has been tested and complies with FCC rule: Part 15 Subpart J. To maintain low EMI levels, we suggest that you use only metal connectors and shielded cable grounded to the frame. Specifications are subject to change without notice.

Order from: **C A Briggs Company**

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## Introduction

The Notify™ Wireless Pumping System Alarm is setup in 4 steps shown in Figure 1 by ① naming the site and ② defining one or more logical Devices (groups of sensors) and ③ the physical sensor inputs associated with it. One Notify™ can support 12 dry-contact (bi-state) sensors and 1 analog transducer. Those 13 inputs can be arranged in any combination of input arrangements to define a Device. And in turn, ④ each Device will have an associated group of notification contacts for alarms generated by its inputs.

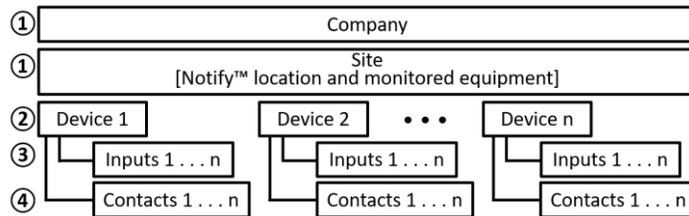


Figure 1

The Notify™ Wireless Pumping System Alarm is configured through a local Ethernet connection between a laptop computer and the Notify™ Processor's on-board web-services application using an internet browser (MS Explorer, Firefox, Google Chrome, Safari, etc.). After installing the NAVI Notify™ Wireless Pumping System Alarm according to the installation instructions and wiring the available bi-state inputs and analog transducers, power the unit then:

- Connect an Ethernet cable between an available Ethernet port on a laptop computer and Ethernet Port 2 connection identified here.



- Open an Internet Browser and enter the local Notify™ IP address: <https://192.168.1.1>. [Enter]



Figure 2



### Notice: Possible Security Warning

When signing on to the Notify™ Processor you should expect a Security Warning. Browsers generally require a security certificate from servers accessed across the public internet. The Notify™ Processor is accessed over a local Ethernet connection –not– the internet and therefore, provides no certificate. However, your browser views the web services set-up application as a server and will warn you that no certificate is available. Please ignore the security certificate warning by clicking “Accept the Risk” or, if necessary, the “Advanced Tab” and then click “Accept the Risk” and continue.

- Enter the User Name: “Admin” then the temporary Password: “Password” and login [Enter]. Admin is the permanent User Name. You will have the opportunity to change the password in the next step.

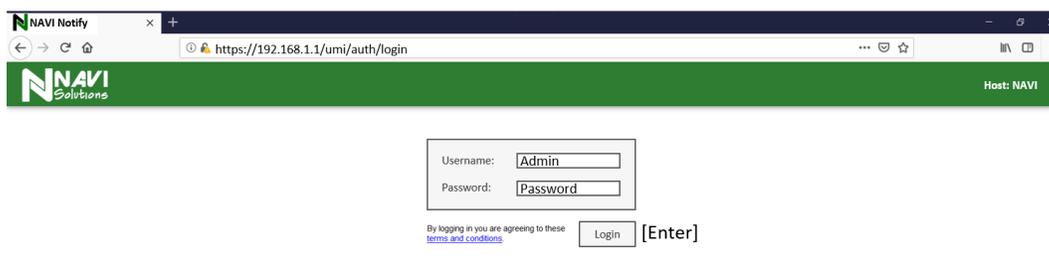


Figure 3

- Once you have logged in, the Notify™ Status Page in Figure 4 will be displayed to configure the Notify™ Processor. Begin by clicking the Navigation Bar, Settings, Password edit icon then change the temporary password and [SAVE]. Record and save the new password. Click the Navigation Bar to close the Panel and return to the Status Page.

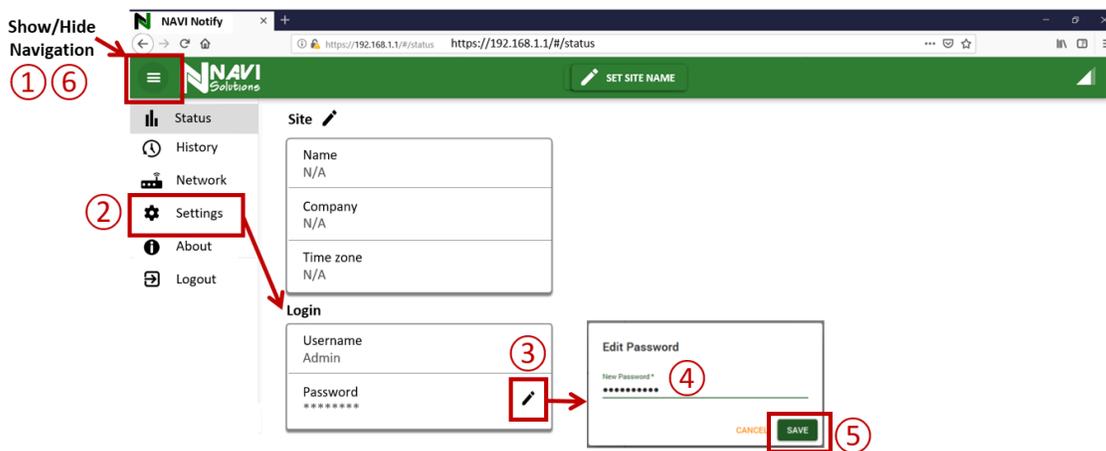


Figure 4

## Step 1: Set the Site Name – Identify the Notify™ Processor

- Click the SET SITE NAME edit icon to
- open the Site Configuration window.
- Enter the Notify™ Site Name – Typically, where it is installed and the system it is monitoring. Enter the Company [Owner or Organization] and Time Zone from the drop down menu then
- [SAVE].

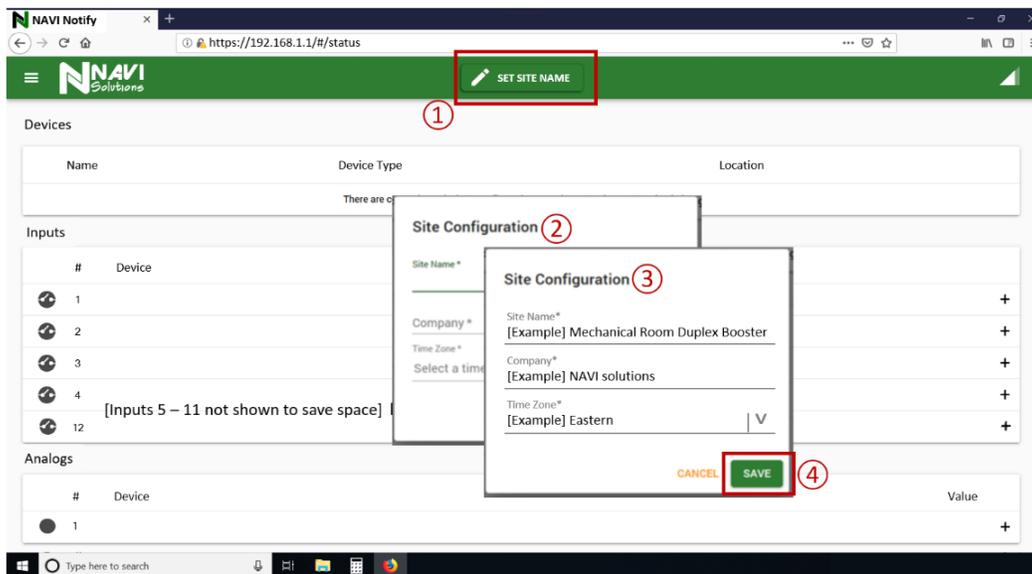
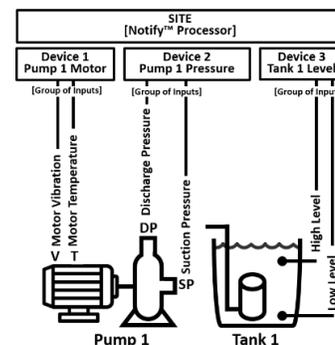


Figure 5

**Step 2: Create the first Device.** A Device is a group of sensor inputs that logically work together and typically monitor a specific piece of equipment such as a pump, fan, or tank, a group of equipment, or an entire system. Notifications are generated for the Device by alarms triggered within its group of inputs.

Each time an Input is configured, Notify™ requires the Input be assigned to an existing or new Device. A drop-down menu will display existing Devices or give the option to add a new Device. Refer to Figure 1 above and the example here.



- ① Click on the Add Input [+] symbol at the right of the desired Input [Figure 6]. This is usually Input 1 but will depend on which Input your initial sensor was connected.
- ② The Create Device window will open.
- ③ Enter the name of the Device [Group of Inputs. In this example “Pump 1 Motor”].
- ④ Click the drop-down menu and select the appropriate Equipment Type ⑤.
- ⑥ Enter a Location for the Device [to what & where the Device’s sensors are connected].
- ⑦ Click “Create [Device Name] and ⑧ [SAVE]. The created Device will be presented in the Device List.

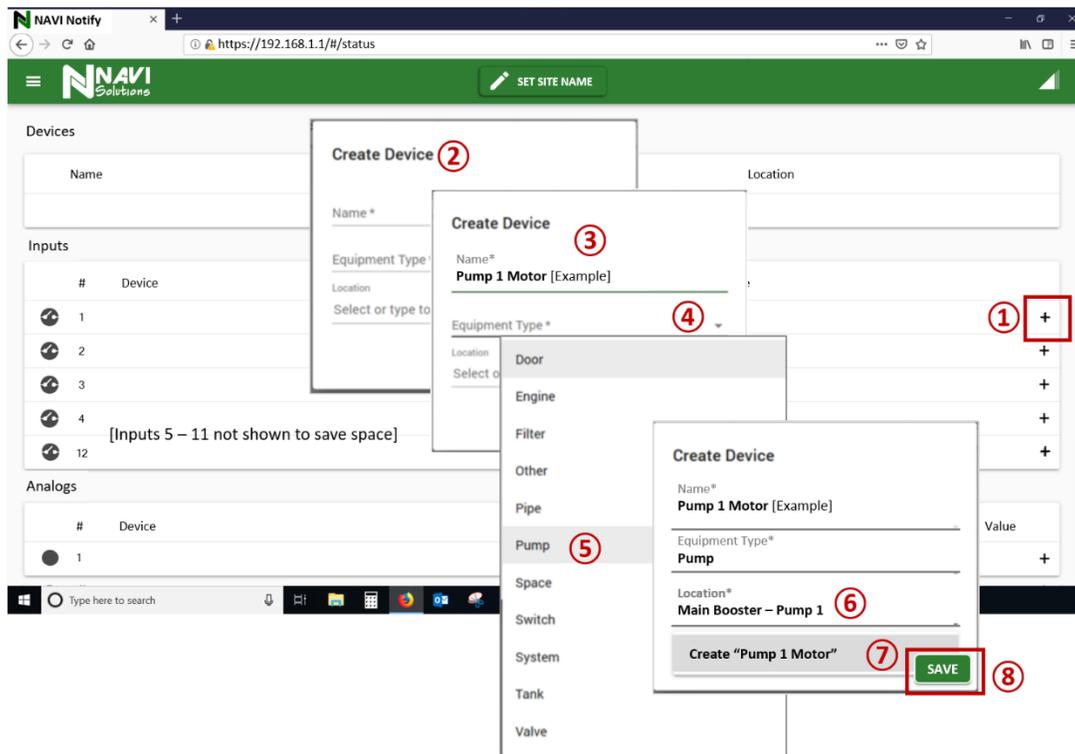


Figure 6

### Step 3: Configuring Dry-contact [Bi-State] Sensor Inputs:

Define the first Input associated with the Device, its normal state, Severity, and Alarm Messages [Figure 7].

- ① Select the Device from the drop-down menu.
- ② Select the Normal Operating State [Normally Open or Normally Closed] from the drop-down menu.
- ③ Enter the Alarm Message Notification that contacts will receive when the Input changes state and the Alarm Cleared Message Notification that contacts will receive when the Input returns to its Normal Operating state.
- ④ Select the Alarm Severity, **Critical**, **Major**, **Minor**, **Warning**, or **Normal/Informational** from the drop-down menu.
- ⑤ Select the Alarm Delay time and the Clear Delay time from the drop-down menu to determine the duration of the change of state before notification messages are delivered. The Delay selection is required to confirm the existence of a valid alarm or cleared condition rather than a temporary fluctuation.
- ⑥ Enter [SAVE] the Input configuration. The created Input will now show the current operating and alarm state in addition to the History, Edit, and Delete icons being available [Figure 8].

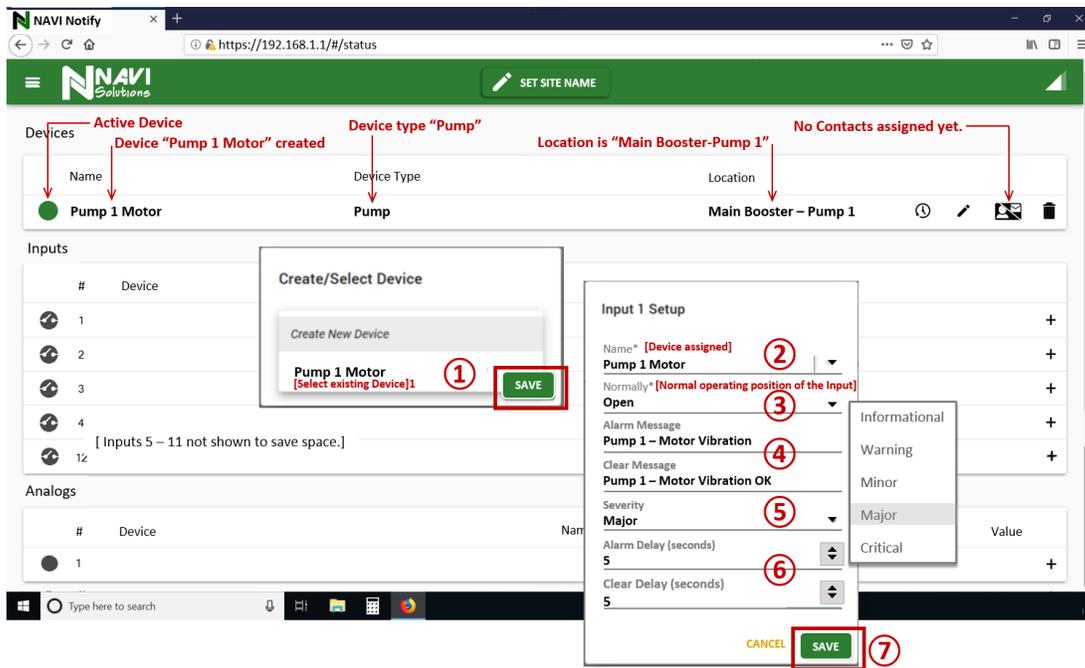


Figure 7

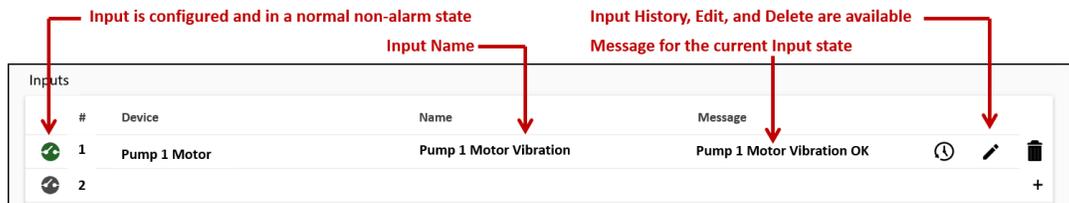


Figure 8: Input setup result

At this point, Step 2 and Step 3 can be repeated to set-up and configure additional Devices and Dry-contact Sensor Inputs. If you are configuring Analog Transducers, continue to the next section. If no analog transducers are to be configured, skip to Step 5.

### Step 3 (cont.): Configuring Analog Transducer Inputs:

- ① To add an Analog Input, click the [+] at the right side of the Analog Input row.
- ② The Create/Select Device window will be displayed. If the Analog Input will be part of a new Device, type the new name in the Create New Device Field.
- ③ If the Analog Input will be assigned to an existing Device, select the Device from the drop-down menu and click [NEXT].
- ④ The Analog 1 Setup window will be displayed. Enter a new Name or select an existing Name from the drop-down menu.
- ⑤ Enter the Units of measurement for the Analog Input [degrees, PSI, gallons]. In this example fluid level in a tank is measured in feet.
- ⑥ Enter the desired precision from the drop-down menu. The Precision can be set from 1 unit to 1/10,000 of a unit. The precision determines how accurately alarm conditions are measured. In the example the Precision is set to 1/10 of a foot.
- ⑦ Analog Transducers operate on varying voltage or varying current. Select the Mode of the Analog Input.
- ⑧ Voltage Transducers typically operate from 0 to 10 VDC. Current Transducers typically operate from 4 to 20 mA. Set the Min and Max Loop limits according to the Transducer's specifications by increasing or decreasing the setting.
- ⑨ Set the operating range the Transducer will be measuring. In the example a 20' deep tank is being measured so the Min Reading is set to 0 and the Max Reading is set to 20. Alarm conditions will be set for various points in the operating range.

- ⑩ Hysteresis determines how far beyond an alarm threshold the alarm will be triggered. This prevents multiple alarms when operating conditions are varying around an alarm threshold [set-point].
- ⑪ Multiple Alarm Conditions and Severities can be set across the operating range of an analog Input. Click [+] to add Alarm Conditions. The Analog 1 Setup window will be expanded.
- ⑫ An alarm is generated when the analog reading is > greater than or < less than a specified threshold. Set the Direction [> or <] from the drop-down menu.
- ⑬ Set the Threshold point where the alarm will be generated if the analog reading exceeds (or falls below) the set-point.
- ⑭ Set the Severity of the alarm from the drop-down menu. [Critical, Major, Minor, Warning, or Informational]

In the example, the Device named “Tank 1” has a 0-10 VDC Analog Input named “Level” measuring units in “Feet” with a precision of 1/10’ over a range of 0 to 20 feet deep and alarm notifications will be made when thresholds are exceeded by .5’ (Hysteresis). An example of Alarm conditions might be:

- <] less than 2 (feet) send an “Informational” alarm notification
- >] greater than 15 (feet) send a “Major” alarm notification
- >] greater than 18 (feet) send a “Critical” alarm notification

- ⑮ [SAVE] the Analog 1 Setup settings.

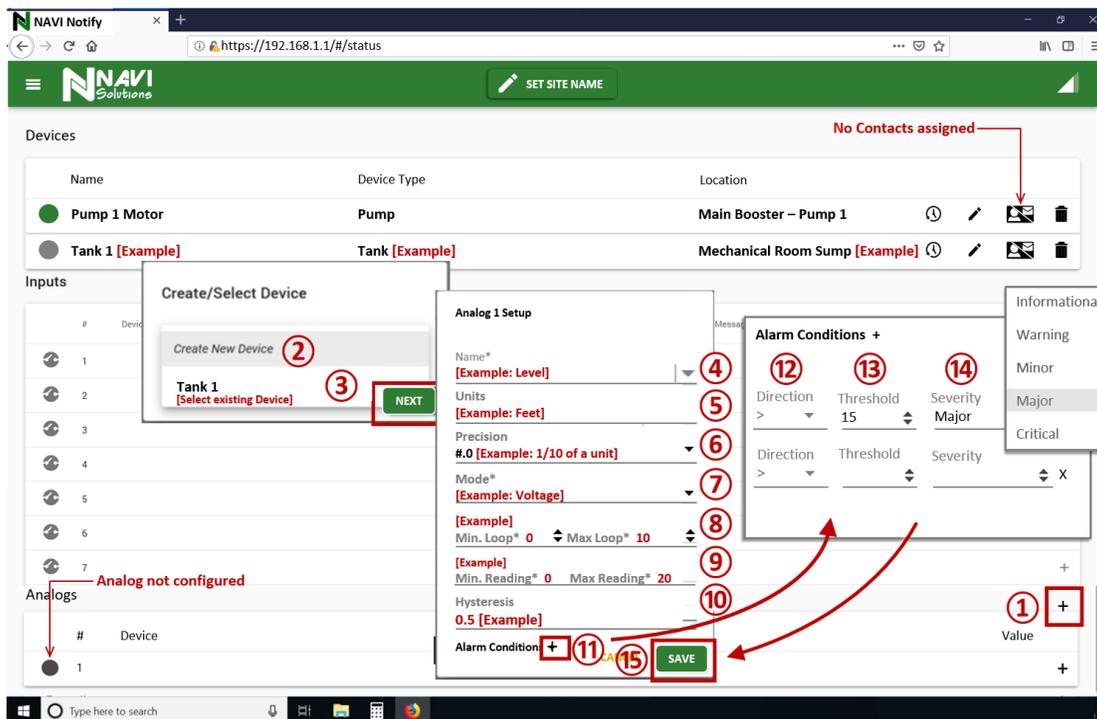


Figure 9

**Analog Set-up result:**



Figure 10

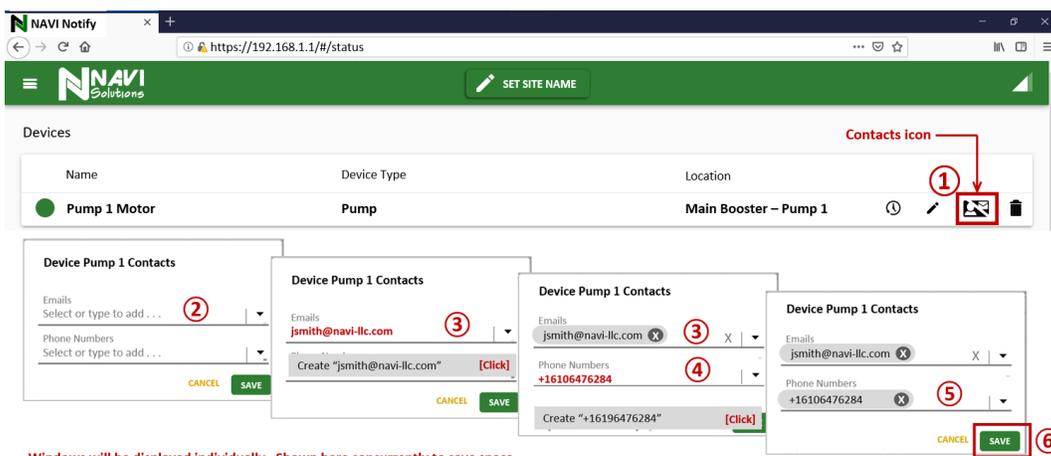
**Step 4: Set-up Email and Text Notifications.**

Email and Text Contacts are entered for each Device. When an Alarm is generated by one of the Inputs within the Device, an Alarm Notification is sent to each Email and Text Contact configured for the Device.

- ① The Device Configuration line will show the No-Notifications icon when contacts have not been configured for the Device. Once a contact has been configured and saved, the icon will change to . Click the Notifications icon to begin adding contacts for the Device.
- ② If email notifications will be sent, enter the email address of the first Notifications contact. When asked to create the email address, review and [click] to confirm the entry.
- ③ The created email address will appear with the option to delete it if desired. To add additional email Notifications, begin typing to the right of the previous entry and [click] to confirm the entry.
- ④ If text message notification will be sent, phone numbers for text contacts are similarly entered. Enter the phone number of the first contact. When asked to create the “number”, review and [click] to confirm.

**Note:** The phone number must be preceded by a “plus one” [+1] and can be in any of the following formats:  
 +1XXXXXXXXXX      +1 XXX XXX XXXX      +1-XXX-XXX-XXXX      +1 (XXX) XXX-XXXX

- ⑤ The created phone number will appear with the option to delete it if desired. To add additional text notifications, begin typing to the right of the previous entry and [click] to confirm.
- ⑥ Once all email addresses and text phone numbers have been entered, click [SAVE].



Windows will be displayed individually. Shown here concurrently to save space.

Figure 11

## Test the Set-up and Configuration

In order to test the set-up and configuration, normally closed [NC] and normally open [NO] Inputs will have to be tested separately.

① NC Inputs can be tested by pulling the modular connector the Inputs are wired to. This will break the connection resulting in a change of the status icon to an alarm condition on the Status Page. Make sure the connector is removed for at least the duration of the delay time specified. Verify the correct alarm notification messages were sent to all contacts configured for the Device. Replace the modular connector. The status icon will return to its normal state and the associated alarm cleared messages will be sent to all contacts configured for the Device.

② NO Inputs can be tested by closing the Input connection with a wire jumper as in Figure 12. Make sure the jumper is in place for at least the duration of the delay time specified. The input status icon will change to Indicating an alarm condition. Verify the correct alarm notification messages were sent to all contacts configured for the Device. Remove the jumper. The status icon will return to its normal state and the associated alarm cleared messages will be sent to all contacts configured for the Device.

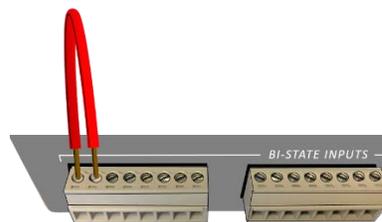


Figure 12

Once each Input has been verified, click the Navigation Bar and [Logout].

## Customer Support

### Contact NAVI Solutions:

- For quoting, order status and general inquiries please contact: [sales@nav-llc.com](mailto:sales@nav-llc.com)
- For technical support please contact [Support@navi-llc.com](mailto:Support@navi-llc.com)
- To speak to a NAVI representative, please call (610) 647-NAVI (6284)
- Hours of Operation: M – F 8:30 AM – 5:30 PM Eastern Time



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