AN-157

Eclipse LED Keypad Protege WX Integration

Application Note

ICTeSecurity®

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Contents

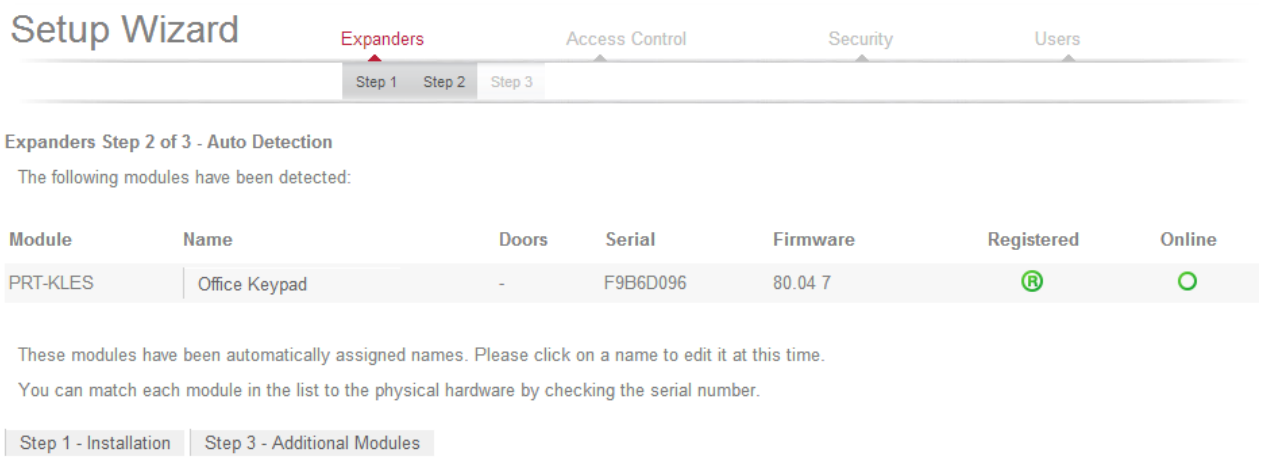
Introduction

PRT-WX-DIN version 2.20.101 and above, enables PRT-KLES Eclipse LED Keypads to be integrated with Protege WX.

For information on hardware installation and mounting, please refer to the PRT-KLES Protege Eclipse LED Keypad Installation Manual available on the ICT Website (http://www.ict.co).

Using the Expanders Wizard

1. From within the WX interface, navigate to **Wizards | Expander Wizard**.
2. Click **Step 2- Auto Detection** to continue. The wizard automatically detects the keypad and displays it here:

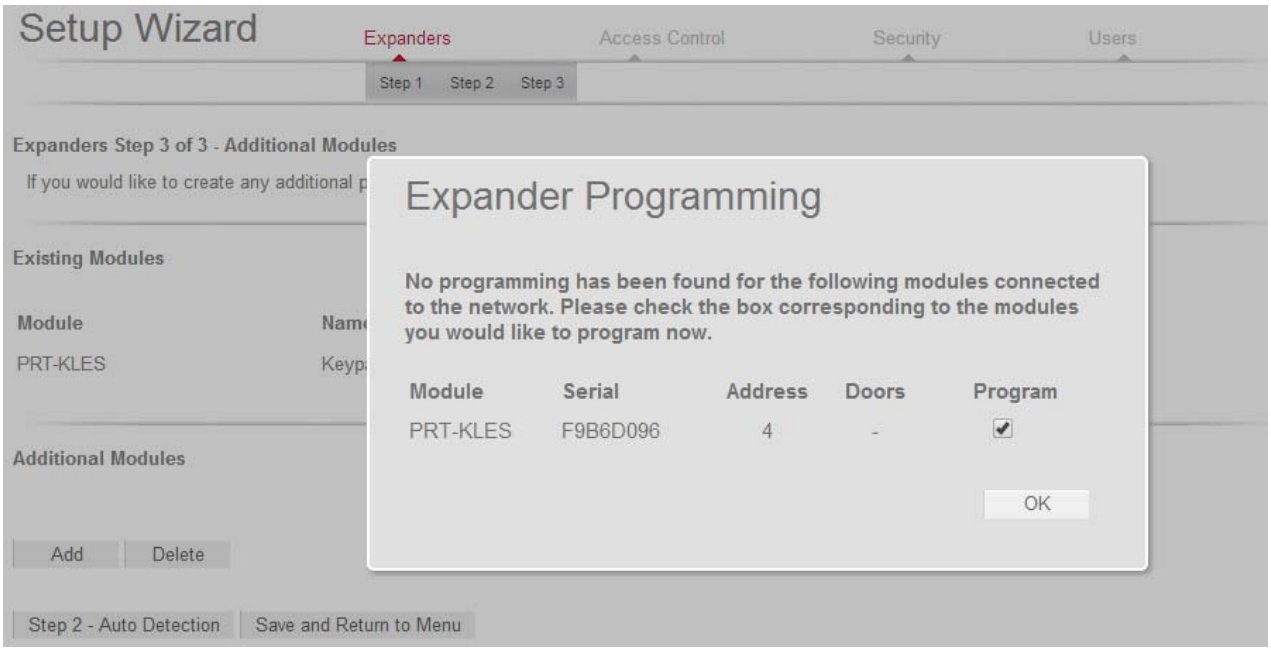


The keypad is assigned a name automatically. This can be renamed as required to provide a more meaningful name for easier identification.

3. Click **Step 3- Additional Modules** to continue.
4. As we don't need to add any additional modules, click **Save and Return to Menu**.

   Before returning to the main menu, you will be prompted to program the keypad. This will automatically add and assign the inputs, outputs and trouble inputs to the keypad.

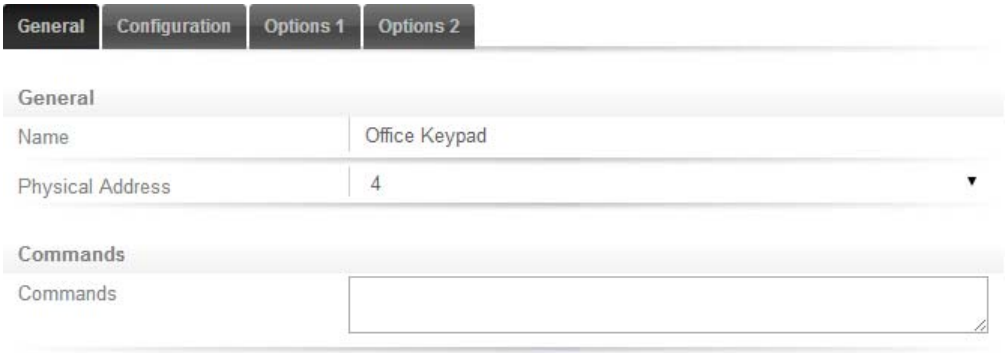
5. Tick the box under the **Program** heading and click **OK** to finish.



With the initial setup complete, we can run through the steps required for integrating the keypad into the system.

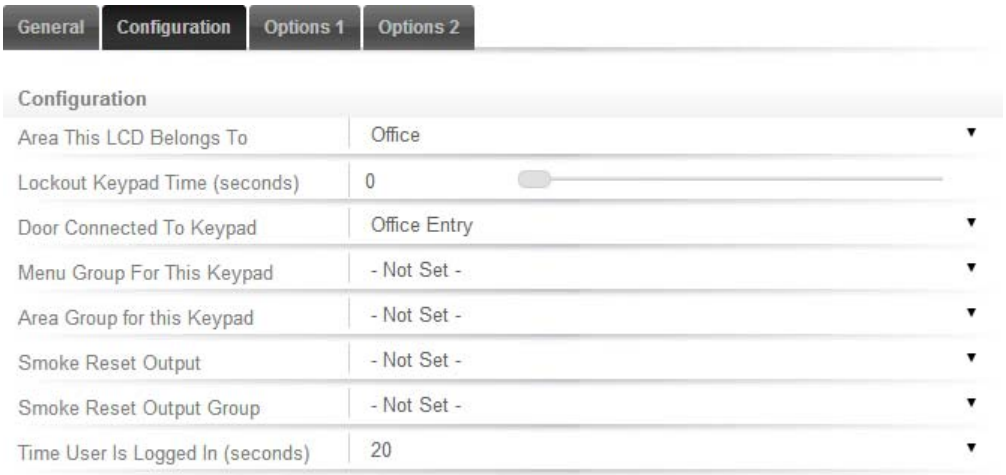
Configuring the Keypad

1. Navigate to **Expanders | Keypads** and select the keypad.



The name and physical address of the keypad can be changed from the **General** tab.

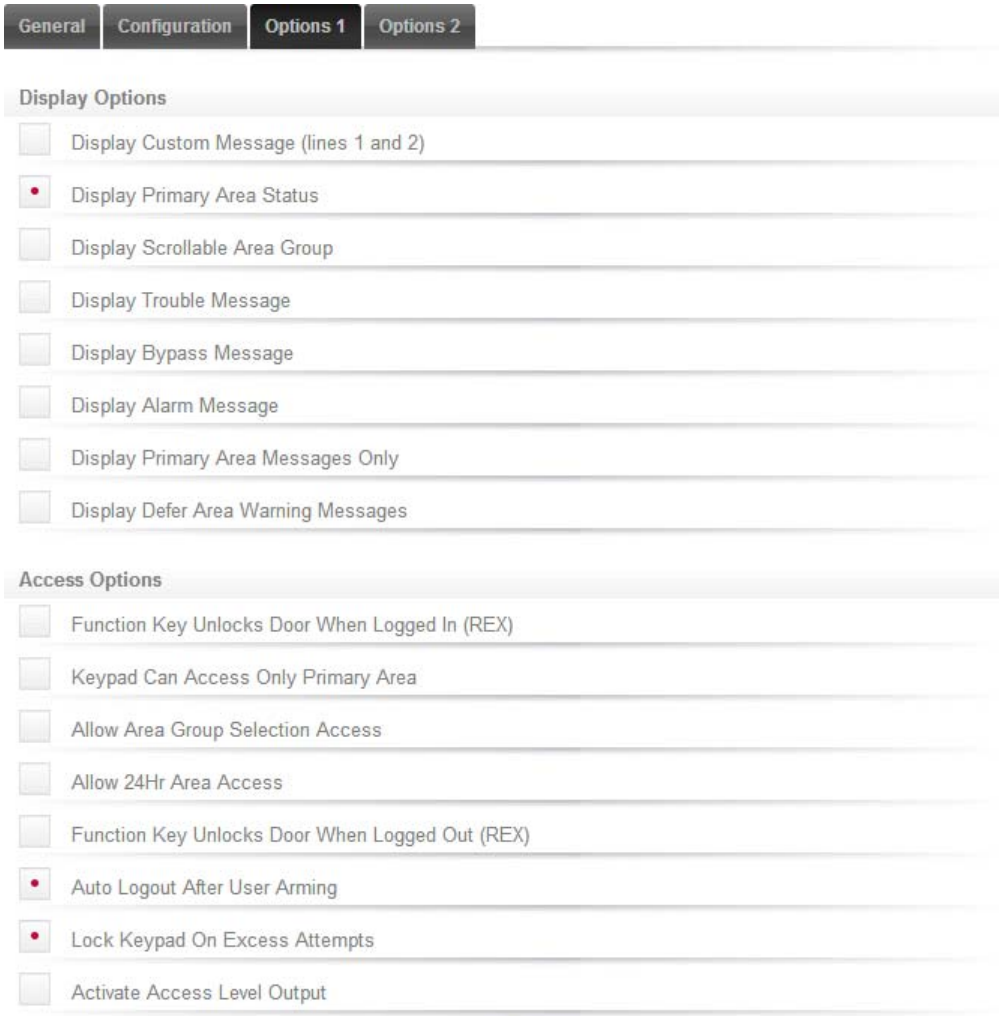
2. Click the **Configuration** tab.



3. The following options can be configured:

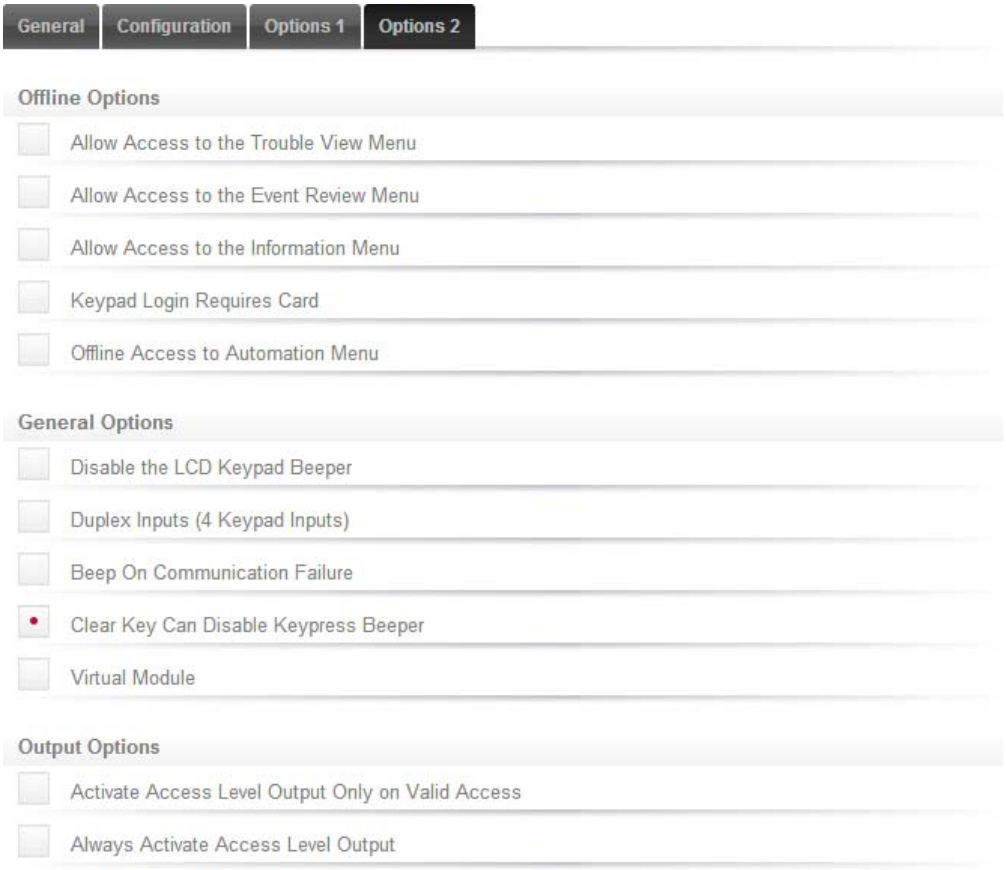
- **Area this LCD belongs to:** The primary area for the keypad is the area that the keypad will display first on all area display modes. The primary area should belong to the keypad's area group, if any area actions are to be performed on the keypad.
- **Lockout Keypad Time (seconds)*:** If the Lockout option is enabled for the selected keypad and the maximum number of incorrect user codes is reached (3 times), the time programmed here defines how long the keypad will be locked out. During this period the keypad will display the lockout message and ignore all key entries or login attempts by any user.
- **Door Connected to Keypad:** The door which is connected to the keypad. The door assigned to the keypad can be unlocked using the **MENU** key (⊖).
- **Menu Group For This Keypad:** Users can only access a menu assigned to the keypad if the same menu is also assigned to the user. This is also applicable if a menu is assigned to a user, but not to the keypad, the user cannot have access to the menu on the keypad.
- **Area Group for this Keypad:** Users can only access an area assigned to the keypad if the same area is also assigned to the user's arm and/or disarm area group.
- **Smoke Reset Output/Output Group:** The output (or output group) that is programmed as the keypad smoke detector reset output will be activated when a user presses the CLEAR + ENTER keys together.
- **Time User Is Logged In (Seconds):** When the user does not perform any action on the keypad for the programmed time, the keypad will automatically log the user out. Programming the option 'Never Logout' should be avoided unless for training or demonstration purposes.

4. Click the **Options 1** tab.



5. The following options can be configured:
   - **Display Primary Area Status**: When enabled, the keypad will display the status of the primary area that is assigned to the keypad.
   - **Display Scrollable Area Group**: When enabled, the keypad will display the status of the areas that are assigned in the area group.
   - **Function Key Unlocks Door When Logged In (REX)**: When enabled, allows the user to unlock the controlled door by pressing the FUNCTION key when they are logged in.
   - **Function Key Unlocks Door When Logged Out (REX)**: When enabled, allows the user to unlock the controlled door by pressing the FUNCTION key when they are logged out.
   - **Auto Logout After User Arming**: When enabled, the keypad will automatically log the user out once they have armed an area.
   - **Lock Keypad On Excess Attempts**: When enabled, the keypad will lock if a user makes 3 invalid attempts to log on.

6. Click the **Options 2** tab.



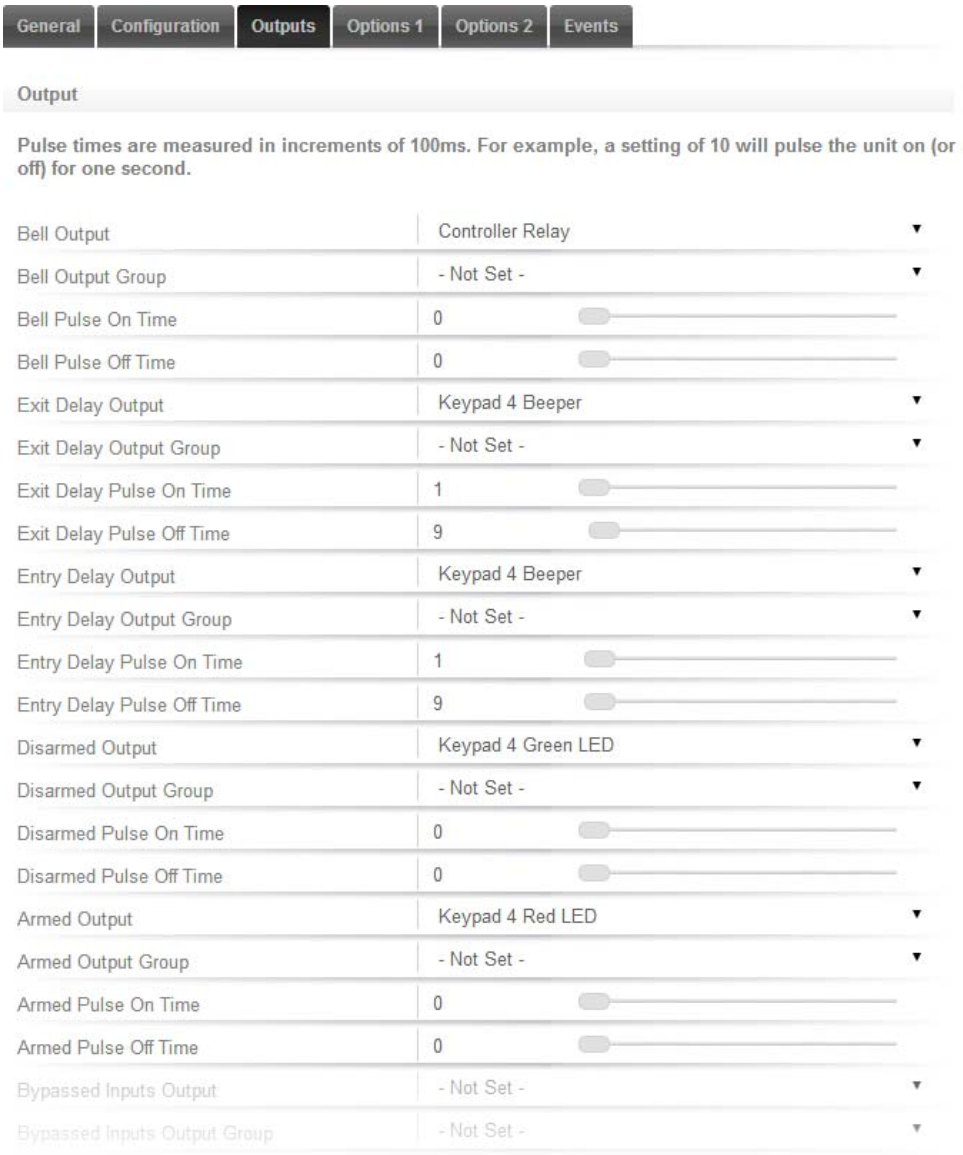
7. The following options can be configured:
   - **Keypad Login Requires Card**: When enabled, the keypad will require access card verification along with a user code before the user login can succeed.
   - **Disable the LCD Keypad Beeper**: When enabled, the keypad will not beep when a key is pressed.
   - **Beep On Communication Failure**: When enabled, the keypad will beep on a communication failure.
   - **Clear Key Can Disable Keypress Beeper**: When enabled, the **CLEAR** key (**X**) can disable the keypad beeper.
   - **Virtual Module**: When enabled, a physical module cannot register at this address. This is used to protect inputs, outputs, etc that are used by functions.
   - **Activate Access Level Output Only on Valid Access**: When enabled, the users access level output will activate after they have logged into the keypad, only if they have a valid menu group and can remain logged in to the keypad.
   - **Always Activate Access Level Output***: When enabled, the users access level output will activate after they have logged into the keypad, even if they do not have a valid menu group or the ability to control other features through the keypad.'

*The keypad does not use menus, so the Menu Group setting is often not programmed, allowing any user with access to the associated area to log into the keypad. However, it is possible to create a menu group to prevent users not in the group from logging into the keypad and changing the state of the area. When this is used in conjunction with the Always Activate Access Level Output option, a valid PIN entry can be used to turn lights on and unlock lockers or doors.

8. Click **Save**.

Setting up the Primary Area

1. Navigate to Programming | Areas.
2. Select the area that is associated with the keypad and click the **Outputs** tab.

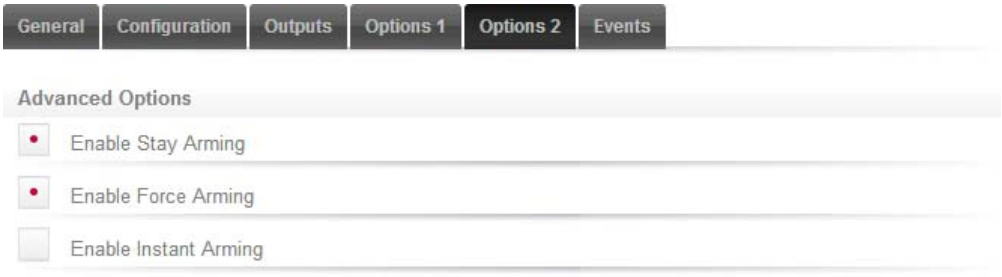


3. From here we can set the **Exit Delay Output/Output Group**, the **Entry Delay Output/Output Group**, **Disarmed Output/Output Group** and the **Armed Output/Output Group**.

   In this example we have used the Keypad Beeper for both the Exit and Entry Delay Outputs with a Pulse On Time of 1 and a Pulse Off Time of 9.

   We have also used the keypad's green LED to indicate that the area is disarmed and the red LED to indicate that the area is armed.

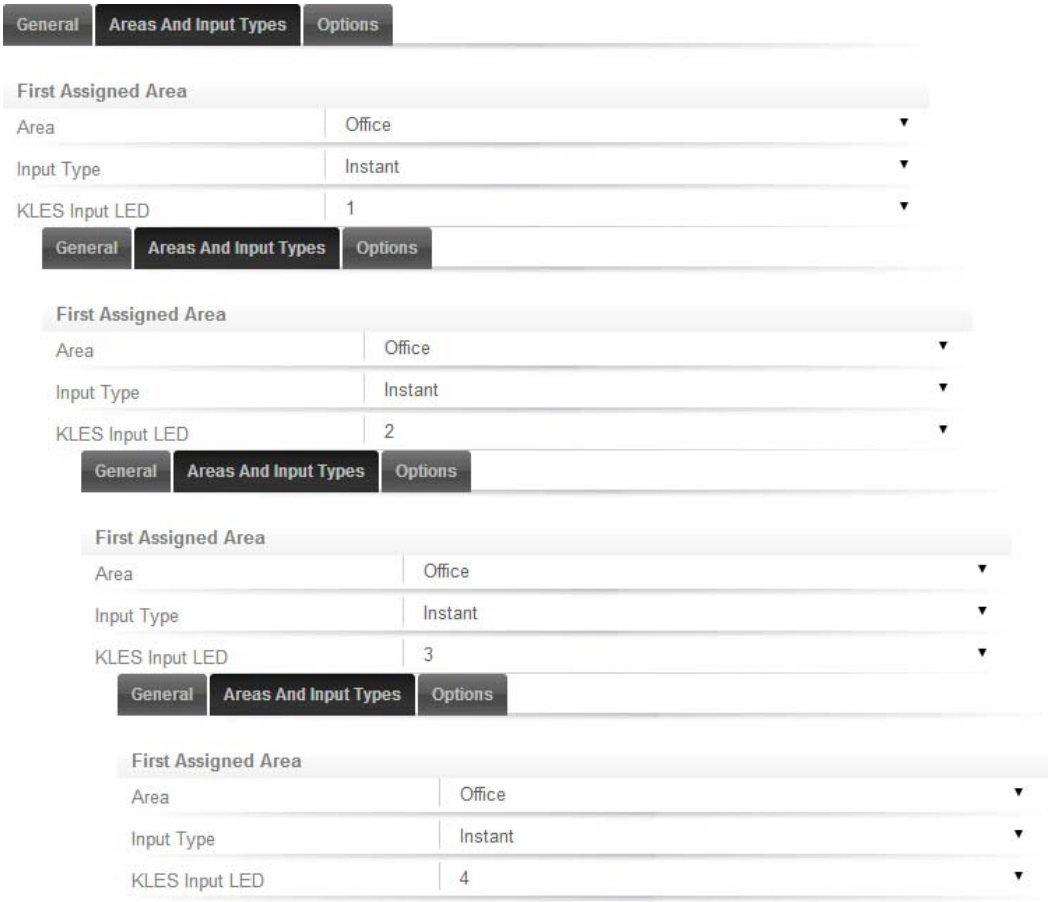
4. Select the **Options 2** tab.



5. If you want to be able to use Stay and Force arming from the keypad, enable these options and click **Save**.

Assigning the Keypad's Inputs

1. To view the inputs assigned to the keypad, navigate to **Programming | Inputs**. The Expanders Wizard should have added four individual inputs to the system.
2. Select the **Areas and Input Types** tab.



3. Here we have added the area that is associated with the keypad to all four keypad inputs, set the Input Type to Instant, and assigned a unique KLES Input LED address.

   Areas can be assigned a KLES Input LED address from 1 - 19. Any areas assigned an address higher than 9, will be displayed on the keypad with the 0 representing the 'tens' digit. For example, when the number 15 is displayed, the 0 and 5 will be flashing.

4. Click **Save**.

User Configuration

In order for a user to be able to arm/disarm an area and lock/unlock a door from the keypad, they must have the correct permissions to do so. If the access permissions given to a user does not allow them to arm/disarm the area, they will be logged out immediately and the area state will not change.

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Integrated Control Technology welcomes all feedback.

Please visit our website (http://www.ict.co) or use the contact information below.

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