

**Eclipse LED Keypad Protege GX
Integration**

Application Note

ICT[®]eSecurity.

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Integrating the PRT-KLES with Protege GX

PRT-KLES Protege Eclipse LED Keypads can be integrated with Protege GX using the PRT-CTRL-DIN system controller. Programming of the keypad can be carried out from within the Protege GX interface.

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>).

Supported Versions

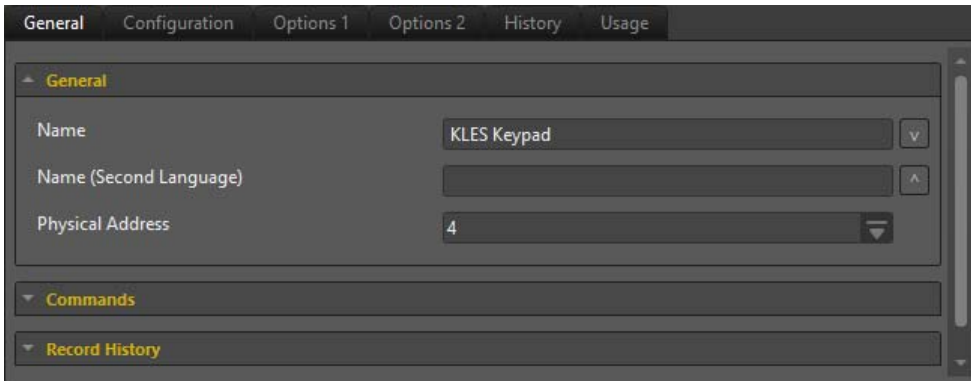
The following software and firmware versions or higher are required for this functionality:

Software	
Protege GX Software	Version 3.2.62.6 (manual commands only)
Firmware	
PRT-CTRL-DIN	Version 2.08.297
PRT-KLES	Version 80.04.007

Configuration

Adding the Keypad

1. Navigate to **Expanders | Keypads** and click **Add**.
2. Enter a **Name** for the keypad and assign the keypad's **Physical Address**.

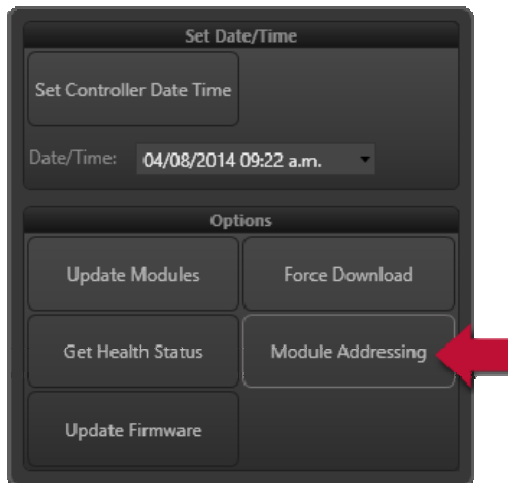


The screenshot shows a configuration window with tabs: General, Configuration, Options 1, Options 2, History, and Usage. The General tab is active and contains the following fields:

- Name: KLES Keypad
- Name (Second Language):
- Physical Address: 4

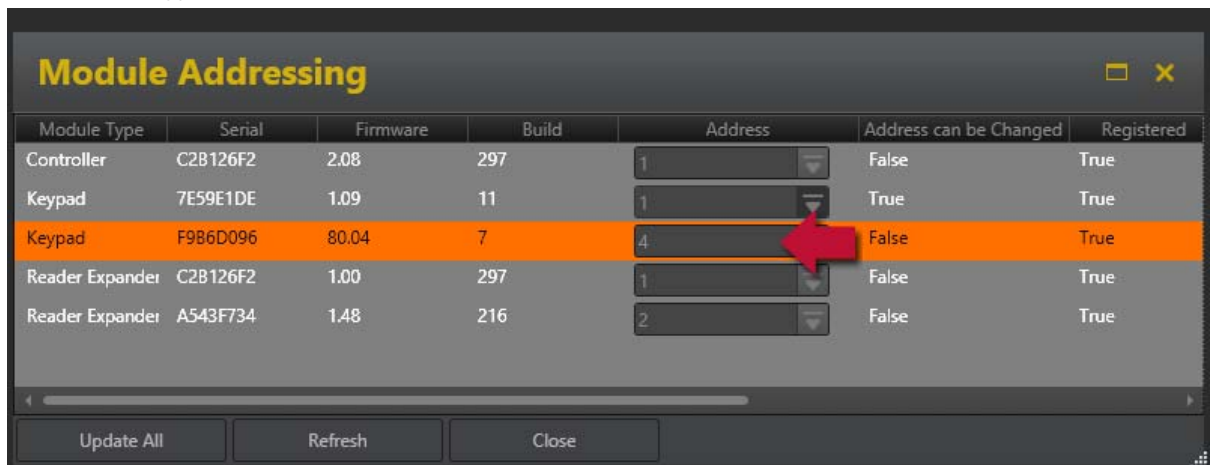
Below the General tab are sections for Commands and Record History, both of which are currently collapsed.

- If you do not know the address of the keypad, navigate to **Sites | Controllers**, right click the controller that the keypad is connected to and select **Module Addressing**.



The screenshot shows a 'Set Date/Time' dialog box with a 'Set Controller Date Time' button and a 'Date/Time' field set to '04/08/2014 09:22 a.m.'. Below this is an 'Options' section with several buttons: Update Modules, Force Download, Get Health Status, Module Addressing (highlighted with a red arrow), and Update Firmware.

- Locate the keypad and note down its address.



The screenshot shows a 'Module Addressing' dialog box with a table of modules. The table has columns for Module Type, Serial, Firmware, Build, Address, Address can be Changed, and Registered. The keypad with serial F986D096 and address 4 is highlighted in orange.

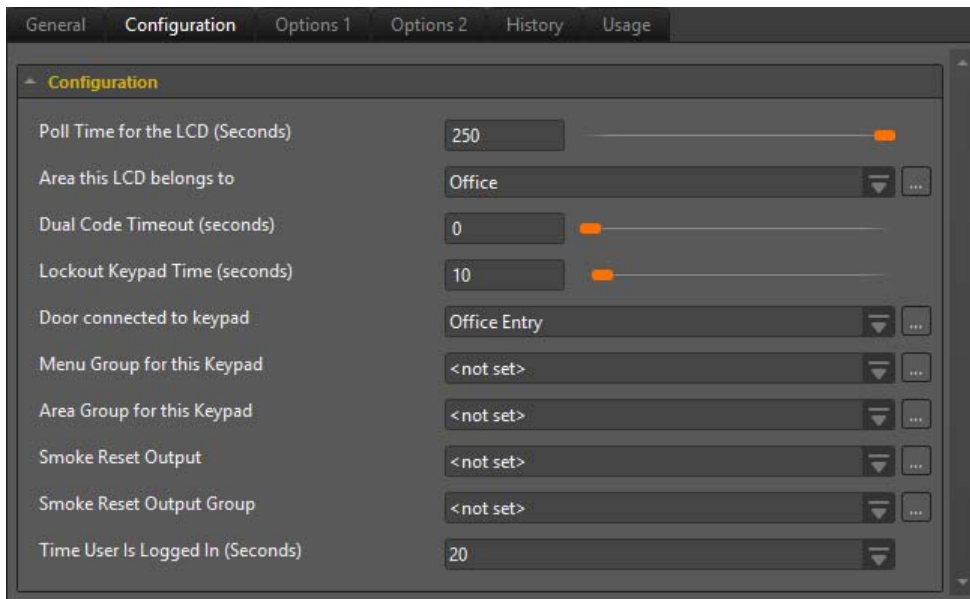
Module Type	Serial	Firmware	Build	Address	Address can be Changed	Registered
Controller	C2B126F2	2.08	297	1	False	True
Keypad	7E59E1DE	1.09	11	1	True	True
Keypad	F986D096	80.04	7	4	False	True
Reader Expander	C2B126F2	1.00	297	1	False	True
Reader Expander	A543F734	1.48	216	2	False	True

At the bottom of the dialog box are buttons for Update All, Refresh, and Close.

- Enter the address into the **Physical Address** field of the keypad.
3. Click **Save**.

Configuring the Keypad

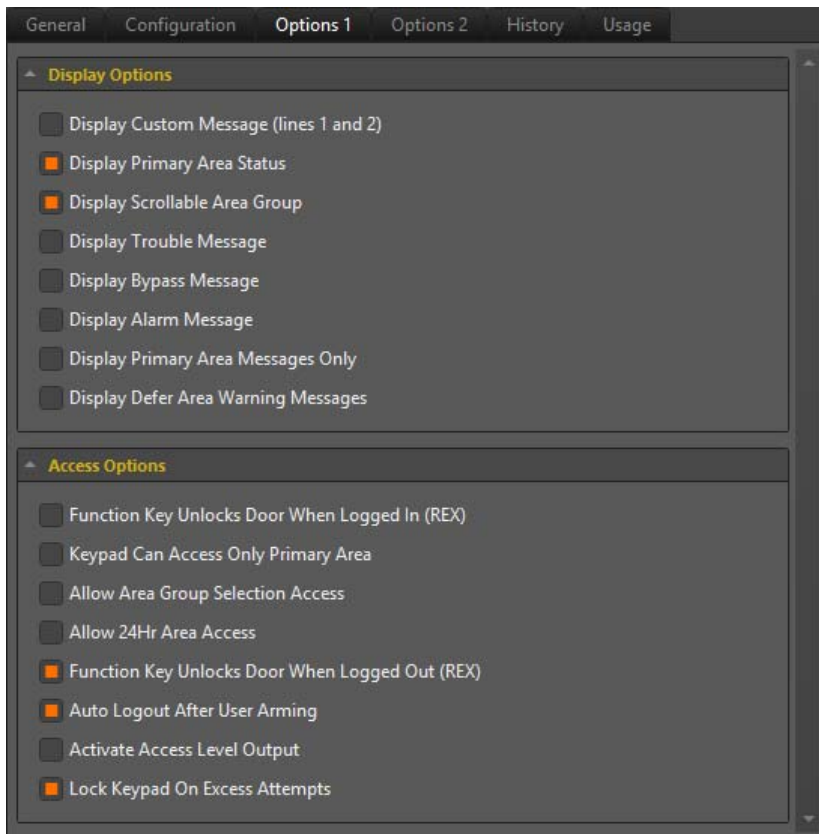
1. Navigate to **Expanders | Keypads** and click the **Configuration** tab.



2. 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 (three 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.

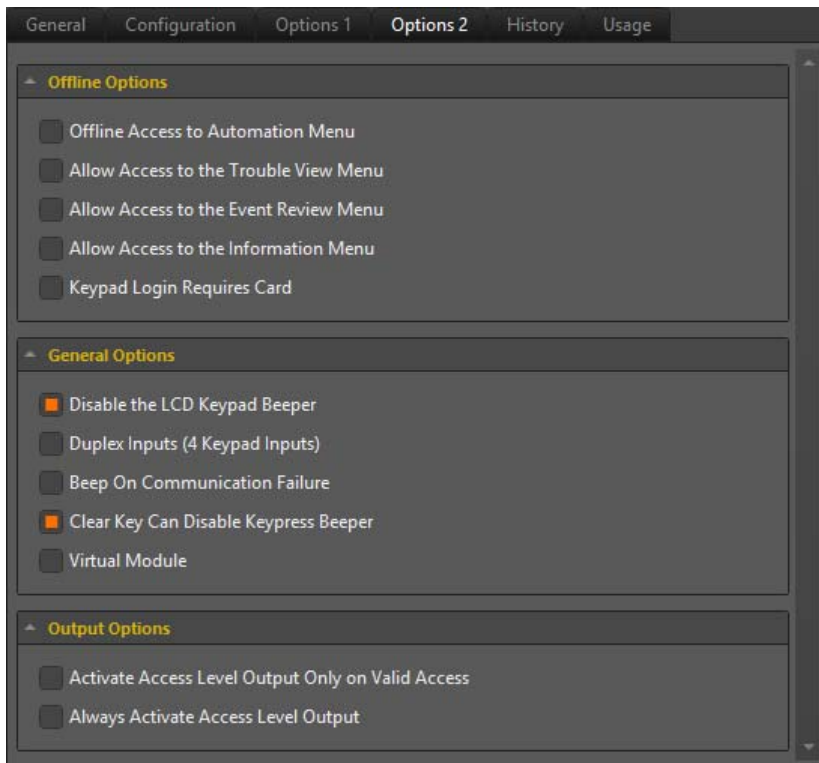
3. Click the **Options 1** tab.



4. 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 area's 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 three invalid attempts to log on."

5. Click the **Options 2** tab.



6. The following options can be configured:

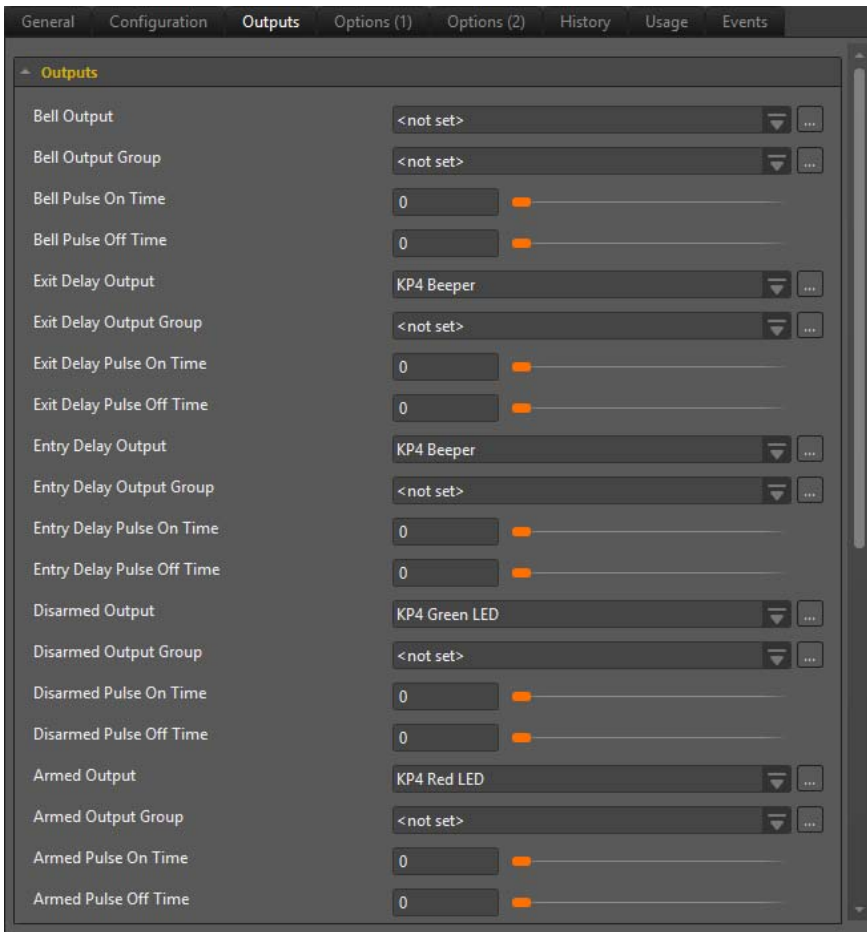
- **Keypad Login Requires Card:** When enabled, the keypad will require access card verification along with a user code before the user login can succeed.
- **Disable the LCD Keypad Beeper:** When enabled, the keypad will not beep when a key is pressed.
- **Beep On Communication Failure:** When enabled, the keypad will beep on a communication failure.
- **Clear Key Can Disable Keypress Beeper:** When enabled, the CLEAR key 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.

7. 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.

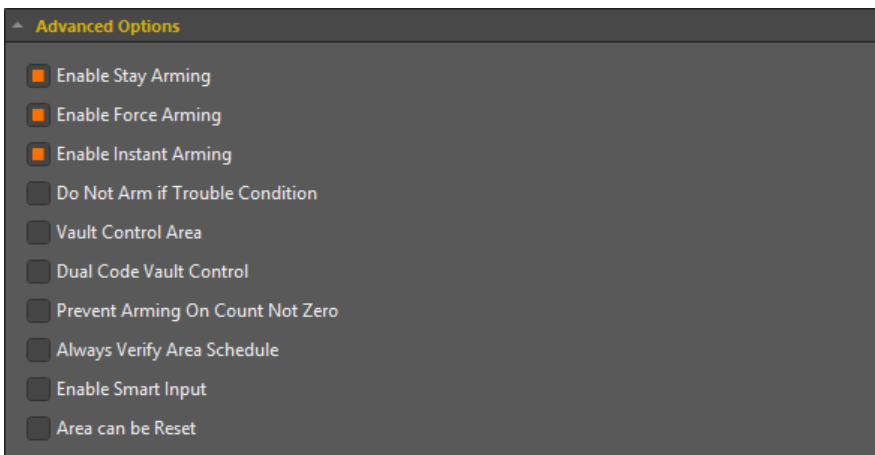


3. From here, we can set the **Exit Delay Output/Output Group**, the **Entry Delay Output/Output Group**, **Disarmed Output/Output Group** and the **Armed Output/Output Group**.

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 Areas to the Keypad's Inputs

1. To assign areas to the keypad's inputs, navigate to **Programming | Inputs**.
2. Select one of the keypad's inputs and click the **Areas and Input Types** tab.

3. Assign the input to at least one area.
Inputs can be assigned in up to four different areas.
4. Set the **Input Type** for the input to **Instant**.
5. Click **Save**.

Associating Areas with the Keypad's LEDs

Until an updated version of the GX software is available, areas must be linked to the keypad's input LEDs via the Commands section of specific input. From the **General** tab, enter the following parameters into the **Commands** field:

```
Area1KLESZone = 1
Area2KLESZone = 2
Area3KLESZone = 3
Area4KLESZone = 4
```

Line	Parameter	Description
Line 1	Area1KLESZone	Defines the KLES LED associated with the input's First Assigned Area.
Line 2	Area2KLESZone	Defines the KLES LED associated with the input's Second Assigned Area.
Line 3	Area3KLESZone	Defines the KLES LED associated with the input's Third Assigned Area.
Line 4	Area3KLESZone	Defines the KLES LED associated with the input's Fourth Assigned Area.

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.

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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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