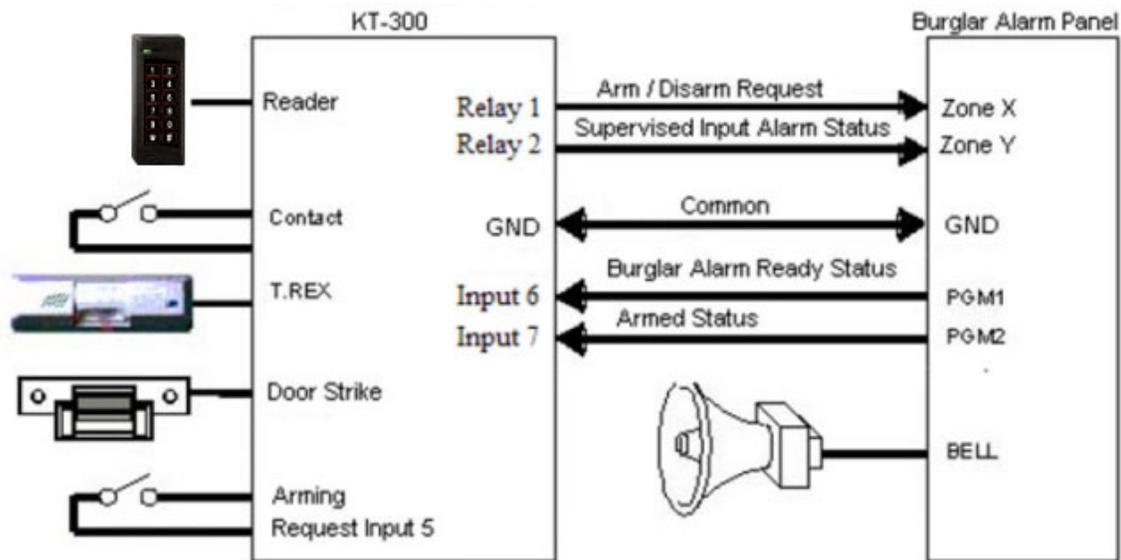


Access Control & Burglar Alarm Integration with KT-300

Purpose

The purpose of this document is to provide Installers and System Administrators instructions on integrating access control to their burglar alarm system.

Adding an access control panel to an existing burglar alarm allows for the arming and disarming of a burglar alarm panel upon a valid access to a card reader. It allows the System Administrator to monitor who has armed and disarmed the system.



Software and Hardware Requirements

- EntraPass Special or Corporate Edition system with a KT-300 door controller
- Proximity reader with valid access cards for arming/disarming via the KT-300 door controller
- Arming request input button or * key on reader/keypad combination (P555KP, P225KP, or P325KP)
- A door contact monitored by the KT-300 door controller (not the burglar alarm)

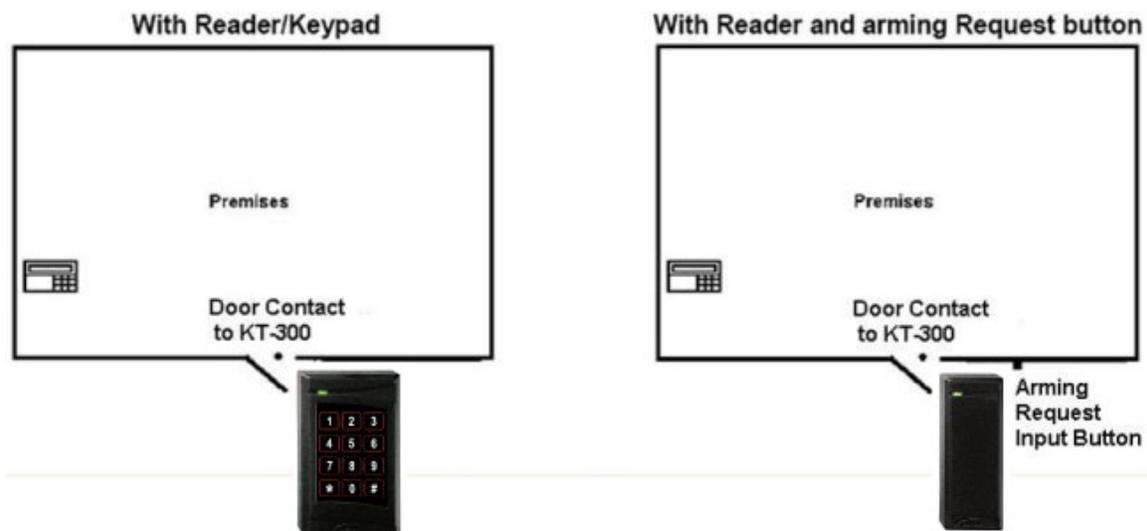
Alarm Panel Requirements

- Zone X configured as “Momentary Key Switch Arming”
- Zone Y configured as a “24-hour instant zone”
- PGM1 configured to follow the “Ready State” of the alarm panel
- PGM2 configured to follow the “Armed State” of the alarm panel

Summary of Concepts

In this application, the KT-300 door controller will arm and disarm the burglar alarm panel following a valid access and arming request (users will swipe their cards, then press the **Arming Request Input Button** located near the entry door).

- **To arm the burglar alarm**, the door controller's Relay 1 will only activate if a valid access card has been swiped, the **Arming Request Input** or **Keypad Button** is pressed, and none of the door controller's inputs specified in the door's external alarm options Supervised Inputs page are in alarm. In this case, Relay 1 will toggle the momentary key switch arming input on the burglar alarm for 2 seconds. When the burglar alarm is armed, the **door controller's reader LED will constantly flash** to indicate that the system is armed.
- **To disarm the Burglar Alarm**, swipe a valid card and enter the premises. You must open the door for the alarm panel to be disarmed.



Recommendations

It is recommended to use a P225KP or P325KP or a P555KP reader/keypad combination in order to provide extra security when the arming/disarming reader is located outside the premises. This strengthens security when a valid card and PIN code are required to arm and disarm. Also, the use of a reader/keypad combination removes the need of having to install a separate arming request button near the reader.

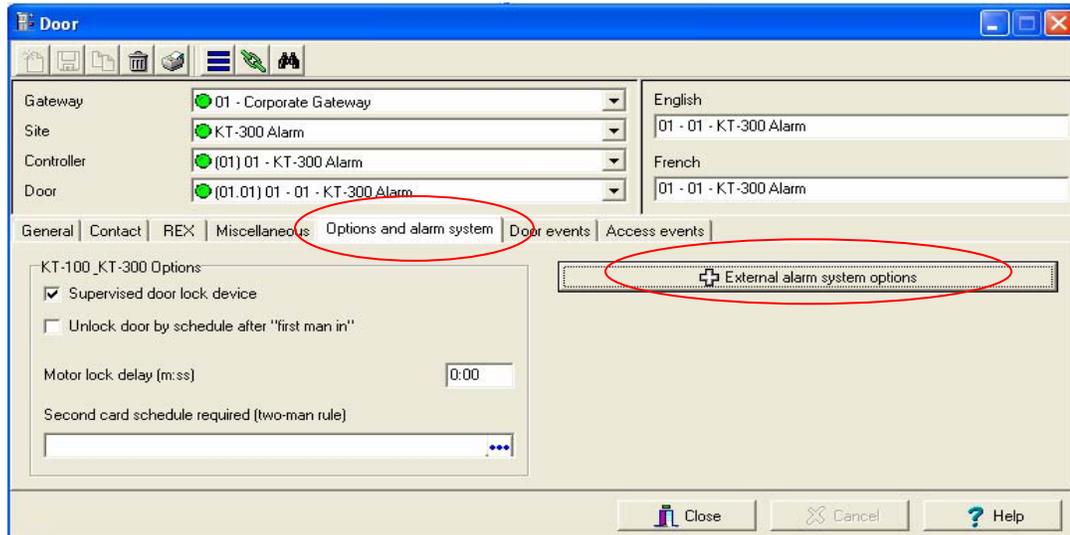
When connecting the KT-300 relay outputs to an external burglar alarm panel, please note that the control outputs are open collector to ground and require knowledge of electronics if the burglar alarm is configured for end-of-line resistor supervision.



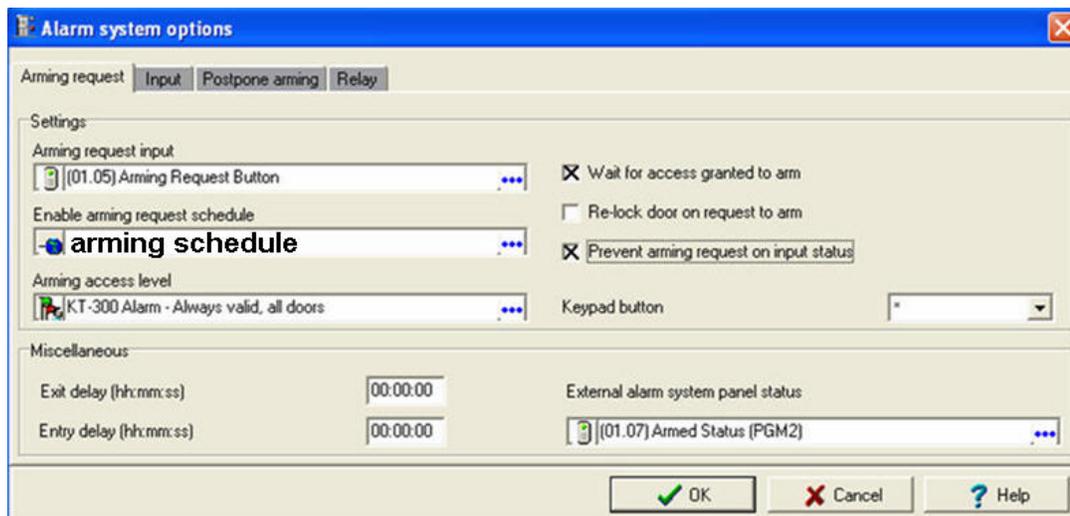
Please test for full functionality before leaving the customer's premises.

Configuring EntraPass for Arming the Burglar Alarm

1. Start the EntraPass Corporate Edition or Special Edition workstation application.
2. Under the **Devices** tab, click **Door** to open the **Door** dialog.
3. In the scroll lists, select the **Gateway**, the **Site**, the **Controller** and the **Door** you want to configure.



4. Move to the **Options and alarm system** tab. Click on **External alarm system options**. This should open the **Alarm system options** dialog.



5. Select **Input 5** for the **Arming request input**. Please note that a button from an integrated keypad can be used and programmed under the **Keypad button** field.
6. Select during which schedule the **Arming request** will be enabled.
7. Select the appropriate **Arming access level**.
8. Select **Input 7** to which the **Armed Status (PGM2)** is connected to, in the **External alarm system panel status** field.

9. Move to the **Input** tab.

Description	Supervised	Shunted on entry	Shunted on exit	Shunted on disarm
(01.01) Contact -> 01 - 01 - KT-300 Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(01.02) REX -> 02 - 01 - KT-300 Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(01.03) Contact -> 03 - 01 - KT-300 Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(01.04) REX -> 04 - 01 - KT-300 Alarm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(01.05) Arming Request Button	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(01.06) Burglar Alarm Ready Status (PGM1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(01.07) Armed Status (PGM2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Check the appropriate boxes for the controller's inputs. These are the inputs which will be supervised when the system is armed. Door contacts must be checked as well.

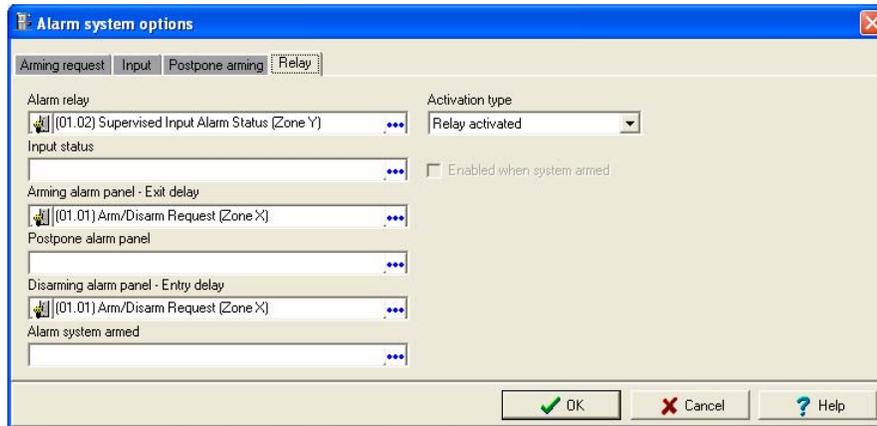
11. Move to the **Postpone arming** tab.

12. Select an **Input to postpone arming** or a **Keypad button** to use as the input to postpone arming.

- Postpone arming should be used when the system is counting down the exit delay and a user needs to reenter the premises without causing an alarm.
- Postpone arming can also be used if the burglar alarm panel has an auto-arm schedule, and the user wants to override it from the KT-300 door controller.

13. Select the **Postpone or disarm access level** to specify disarming privileges.

14. Move to the **Relay** tab.



15. Select the **Alarm relay** that will be activated when a door is forced open or when an input, which was previously checked as **Supervised** in the **Input** tab, goes into alarm.



The burglar alarm must be armed for this to occur.

16. Select the **Arming alarm panel – Exit delay**, which is the output activated when an arming request is made from the controller.

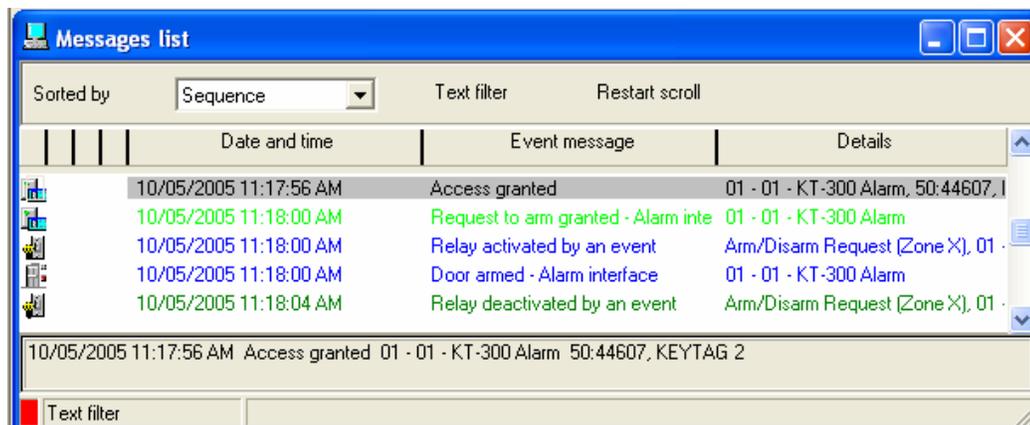
17. Select the **Disarming alarm panel – Entry delay**, which is the output activated when a disarming request is made from the controller. It is usually the same selection as for the **Arming alarm panel – Exit delay** on step 16.

18. Click **OK** to close the **Alarm system options** dialog.

19. Click on the floppy icon to save.

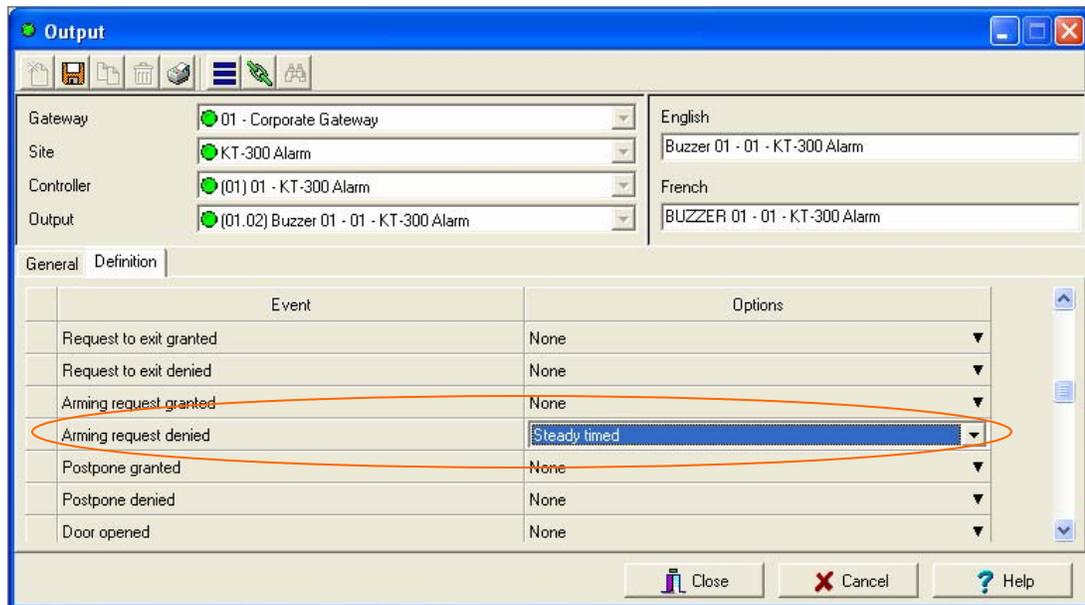
20. Close the **Door** dialog.

21. Under the **Desktops** tab, click **Desktop #1** to open the **Messages list** dialog. See below an example which lists the events for a request to arm.



Setting Up the Arming/Disarming Reader/Buzzer for an Arming Request Denied Indication (Optional)

1. Under the **Devices** tab, click **Output** to open the **Output** dialog.
2. In the scroll lists, select the **Gateway**, the **Site**, the **Controller** and the **Output** you want to configure.
3. Move to the **Definition** tab.



4. Select **Steady timed** for the **Arming request denied** option.
5. Click on the floppy icon to save.
6. Close the **Output** dialog.