

ESX Scenarios - Access Control

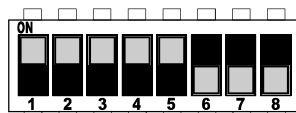
KP= Keypad Address, **OP**= Output Number, **U**= User Slot, **ZN**= Zone Number.
P= Program Button, **E**= Enter Button.

1. Assign the Reader/Keypad.

When using the Wiegand-IF2 you can select a keypad address from 1-32.

It is recommended in larger systems to start from the end at 32 when in single door mode and 31 in 2 door mode. (this is because the IF2's second interface automatically increments the first by 1, taking two keypad slots.

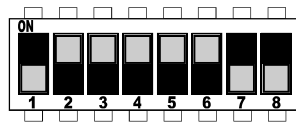
(i.e. If Interface 1 is KP 31, then Interface 2 will be 32).



Wiegand-IF2 set to Single-Door **KP-32**

This also means Relay-1=**OP-32** & Relay-2= NONE

And IN-1=**ZN-32** & IN-2=REX for **OP-32**



Wiegand-IF2 set to 2-Door **KP-31** and **KP-32**

This also means Relay-1=**OP-31** & Relay-2=**OP-32**

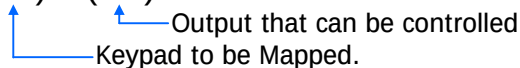
And IN-1=**ZN-31** & IN-2=**ZN-32**

Assignment of all access control keypads should be done before proceeding.

2. Keypad to Output Mapping.

This option links keypads to outputs/doors, allowing only selected doors to be opened from chosen keypads.

Keypad: **P 82 E (KP) E (OP) E**



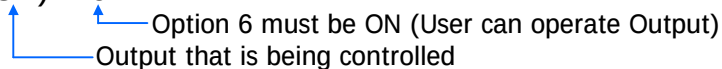
example: P 82 E 32 E 32 E (keypad 32 is now linked to Output 32)

Web page: Settings > Keypads (type in **KP** > Read)> Keypad to output mask (select **OP** > Save)

3. Output Permission.

For the Output to be activated by a Keypad/User permission must be given.

Keypad: **P 34 E (OP) E 6 E**



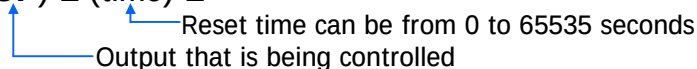
example: P 34 E 32 E 6 E (Output 32 now allows Users to activate it)

Web page: Settings > Outputs (type in **OP** > Read)>
Output options A (select Keypad code enabled > Save)

4. Door Release/Open Time

Enter a time in seconds, that the Output will stay On, keeping the door unlocked.

Keypad: **P 40 E (OP) E (time) E**



example: P 40 E 32 E 5 E (Output 32 will turn On for 5 seconds)

Web page: Settings > Outputs (type in **OP** > Read)> Timing (Reset time > Save)

5. User Permission to Access Doors

Each User Slot can be given access to each Door. Some users may need to have access, to more doors than other users. Keeping Users in number groups can make this easier. Example **U100** to 199 can open **OP31**. **U200** to 299 can open **OP31** & **OP32**. The reason for the groups is once a User is setup you can copy user configuration to other slots. See step 6.

Keypad: **P 13 E (U) E (OP) E**

↑ Output/s that can be controlled

↑ User that you wish to change Access Permissions

example: P 13 E 100 E 32 E (User 100 now has Access to Output 32)

Web page: Settings > Users (type **U** > Read) > Outputs this user can turn on (select **OP** > Save)

6. Bulk Copy User Configuration

Once you have setup all Access door, configured and tested a User to operate them Bulk copying that users configuration will save time. Note. Bulk Copying a User Slot will transfer all assigned Access doors, Arming permissions, but not User pin codes or Tag cards

Keypad: **P 17 E (U) E (Ustart) E (Ufinish) E**

↑ Last User Slot number to copied to

↑ First User Slot number to copied to

↑ User Slot you wish to Copy

example: P 17 E 100 E 101 E 199 E (User Slots 101 to 199 can now do the same User 100)

Web page: Feature not available

7. Request to Exit (REX)

In normal access control scenarios, there will be a keypad controlled entry and a push button to exit known as a REX. This REX button can be wired into a controlled input on the Wiegand-IF2, that is programmed to instantly trigger the output.

Note. If the Wiegand-IF2 is set to single door mode (dip-6 Off) Input-2 is automatically a REX input linked to Relay-1. (make sure the 2K2 Resistor is fitted to Input-2, if you are not using this Feature)

7.a Enable the Wiegand-IF2 Inputs

Keypad: **P 122 E (ZN) E 1&4 E**

↑ Option 1 & 4 must be ON (1= Zone Enabled, 4= Wiegand Zone)

↑ Zone that is being assigned to the Wiegand-IF2 Input

example: P 122 E 32 E 1 4 E (Zone 32 will respond to an Input of the corresponding IF-2)

7.b Setting the REX Zone option

Keypad: **P 6175 E (ZN) E 2 E**

↑ Option 2 only must be ON for zone to be a REX

↑ Same zone number as above

example: P 6175 E 32 E 2 E (Zone 32 will now not activate the Alarm, just trigger an Output)

7.c Mapping REX Zone to an Output

Keypad: **P 6174 E (ZN) E (OP) E**

↑ Output/Door number the Rex will activate

↑ Same zone number as above

example: P 6174 E 32 E 32 E (Zone 32 will now activate Output 32 for its set Reset time)

Web page: Settings > Zones (type in **ZN** > Read) >

a. Options A (select **Zone is active & Keypad input**) >

b. Access settings ('Access zone operation type' drop down list select **REX**) >

c. Access settings (at 'Output number' type in the **OP**) > Save

8. Access Keypads can Arm Areas

By default all Keypads can Arm. If the Access Reader/Keypad never needs to Arm the system, permission to Arm and Arm Stay mode should be removed.

Keypad: **P 5072 E (KP) E 3 & 4 off E**

↑ ↑ ↑ Turn off option 3= Keypad can Arm & 4= Keypad can Arm Stay
↑ Keypad number to have Arm abilities changed

example: P 5072 E 32 E 3 & 4 E (Keypad 32 can no longer Arm or Stay Arm any Areas)

Web page: Settings > Keypads (type in **KP** > Read)>

Options A (deselect Away arming allowed & Stay arming allowed > Save)

9. Access Keypads can Disarm Areas

By default all Keypads can Disarm. If the Access Reader/Keypad never needs to Disarm the system, permission to Disarm and Disarm Stay mode should be removed.

Keypad: **P 5070 E (KP) E 1 & 2 off E**

↑ ↑ ↑ Turn off option 1= KP can Disarm & 2= KP can Disarm Stay
↑ Keypad number to have Disarm abilities changed

example: P 5070 E 32 E 1 & 2 E (Keypad 32 can no longer Disarm or Disarm Stay Mode)

Web page: Settings > Keypads (type in **KP** > Read)>

Options C (deselect Allow tag to disarm away & Allow tag to disarm stay > Save)

10. Double Badge to Arm

A smart way to allow Access control and Arming from a Reader/Keypad is to enable the Double Badge option. When turned on a single prox card read will open the door, a second prox card read within 10seconds send an Arm request.

Note. Steps 8 & 9 should be skipped and left as default for Double Badge to work.

Keypad: **P 5096 E (KP) E 7on E**

↑ ↑ Turn on option 7= Keypad supports Double Badge to Arm
↑ Keypad number to have abilities changed

example: P 5096 E 32 E 7 E (Keypad 32 is now enabled for Double Badge)

Web page: Settings > Keypads (type in **KP** > Read)>

Graphical LCD keypad options (select Double badge to arm > Save)

Extra option:

P 98 E KP E OP E

P 4 E U E 1, 3 & 4 E

P 21 E U E E

P 22 E U E E

P 23 E E

Reader LED follows Output

Users are allowed to Arm and Disarm.

Learn Prox Card/Tag

Delete Prox Card/Tag

Find Prox Card/Tag

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