

# ETS Inc. PKAC-1 Pattern Keypad access controller

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The PKAC-1 is a unique standalone access controller which can store up to 126 8 button press patterns. It is designed for one door access control applications that don't require time restrictions, log history, etc. It can also be used to turn devices on and off or to trigger other devices.

## Mounting

The PKAC-1 is designed to be mounted on a single gang electrical box.

## Cable connections

Run 18 guage wire for all connections to the PKAC-1 System. See diagram below for connections

## Lock control

Access granted relay time can be adjusted anywhere between 1 and 10 seconds by adjusting the blue relay time potentiometer with a small flat blade screwdriver. The relay is rated at 4amps 30vdc. If you use a DC door strike with this system, be sure to add a "Flywheel diode" such as a 1N5819 across the lock to prevent damage to the relay. The output is form C.

## Entering codes

You have 3 tries to enter a valid 8 button press code before the PKAC-1 locks you out from further tries for 60 seconds. The PKAC-1 green and red LEDs will flash back and forth in lock out mode. You have 3 seconds between digits to enter the next digit. If during code entry you miss a digit (delay between presses exceeded 3 seconds) you will hear a long beep. You must then re-enter all 8 digits.

## Programming codes

Up to 126 8 button press patterns can be stored in the PKAC-1. Adding codes to the PKAC-1 can be done one of two ways. Method 1: Momentarily press the '1S CARD /10S ERASE' button on the board on the back of the unit, Enter a new pattern of 8 key presses. If the code was accepted, the PKAC-1 will beep twice. To enter additional codes, repeat this process.

The second method of adding codes is to enter an existing valid code into the keypad, then if the PKAC-1 is in the momentary relay mode, wait for the green light to go out, and you have 5 seconds to add the new pattern of 8 key presses. if the relay is set for toggle mode, you have 5 seconds to enter a new pattern of 8 key presses immediately after the LEDs change states (relay activates). If the code was accepted, the PKAC-1 will beep twice.

## Note-

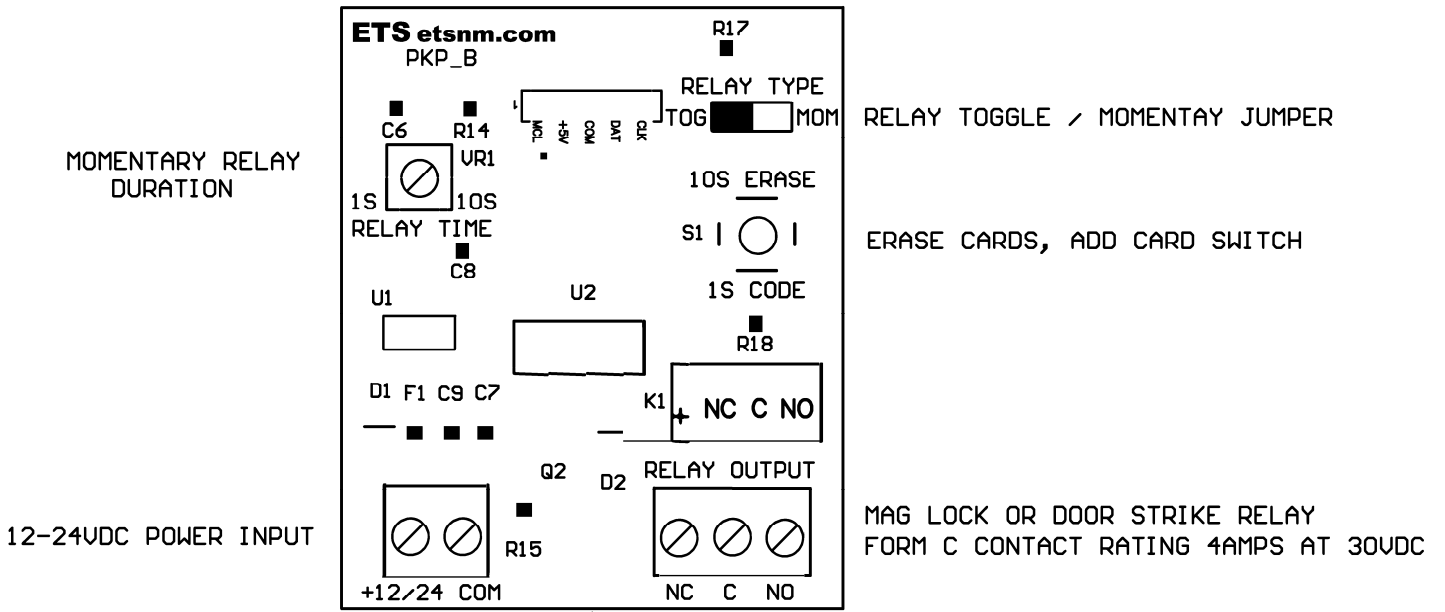
The harder it is for you to memorize the pattern, the harder it will be for someone to guess your pattern or watch and memorize your pattern. We suggest a non symmetrical and complex pattern and remember the 8 presses as two 4 pattern presses. It also helps to mentally number the keys as shown below. It's highly recommended to write the code down somewhere or put it in your phone notes.

1	2
3	4

Examples of more secure patterns are: 1331 2413, 3214 2114, 2241 3312

Examples of less secure patterns are: 1122 3344, 1234 1234, 1111 4444

Deleting codes: Codes cannot be individually deleted from the PKAC-1 data base. The only way to delete codes is to delete them all then add the desired codes back in. To delete all codes in the PKAC-1, hold the '1S CARD /10S ERASE' button down until you hear two beeps. Then to start adding cards, you must first use the first method of adding codes described above to memorize the first code.



### Warranty

All ETS products carry a one year parts and labor warranty. This warranty does not cover damages as a result of misuse, improper handling of the unit or exposure to extreme temperatures or moisture. At its discretion, ETS reserves the right to repair or replace this unit under the conditions of the warranty. If you experience problems with your equipment call ETS at: 505-888-3923 to obtain a return authorization number. Equipment requiring repair beyond the warranty period or units that have been damaged or are not covered under the warranty can be repaired by ETS for a minimal cost under most conditions.

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