



ELSEMA WK433 Wired Keypad User Manual

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ELSEMA WK433 Wired Keypad



Description

The PCKeypad is a wired keypad with a PentaCODE® transmitter built-in. It works with all of Elsema's PCR series receivers. The installer has the option to use the classic 12-way dip switch coding or one of over 17 billion encrypted codes. (Please refer to the programming instructions) The PCKeypad is suitable for mounting either indoor or outdoor under cover. It is housed in a strong vandal proof zinc alloy electroplated case. The PCKeypad supports up to 2000 users with 4 to 8 digit PIN. These features make PCKeypad an ideal choice for gate and door access for homes, shops, factories, warehouses, laboratories, banks and prisons.

Features

- Built-in PentaCODE® transmitter
- Easy programming
- 12 – 24 VDC or 12 – 18 VAC
- Strong zinc alloy electroplated anti-vandal case
- All programming is done from the keypad
- 2,000 users, PIN length 4 to 8 digits
- Adjustable transmission time
- Keypad has a backlight
- Built-in light-dependent resistor (LDR) for anti-tamper
- Built-in buzzer
- Red, yellow and green LED display the working status

Installation

- Remove the back cover from the keypad using the supplied security screwdriver

- Code the transmitter to the receiver prior to mounting the Keypad
- Drill 4 holes on the wall for the screws and 1 hole for the cable
- Fix the back firmly on the wall with 4 flat head screws
- Thread the cable through the cable hole
- Attach the keypad to the back cover

Specifications

Operating Voltage	12 to 24 VDC or 12 to 18 VAC
User Capacity	2,000
Active Current	92mA
Idle Current	58mA
Operating Temperature	-5°C – +50°C
Operating Humidity	10 % – 90% RH
Adjustable Transmission Time	1- 90 seconds
Operating Range	Up to 20 metres with line of sight
Dimensions	128 x 82 X 28mm
Weight	700g

Wiring

<u>Wire Colour</u>	<u>Function</u>
Red	AC or DC Supply, + for DC
Black	AC or DC Supply, – for DC
Green	Wiegand 26 Bit Output D0
White	Wiegand 26 Bit Output D1
Blue	Wiegand Ground GND

Anti-Tamper Alarm

The PCKeypad uses a built-in LDR (light dependent resistor) as an anti-tamper alarm. If the keypad is removed from the cover then the internal buzzer starts beeping for 1 minute.

Reset to the Factory Default

To reset the Keypad to the factory default follow the steps below:

1. Disconnect the power of the unit
2. Press and hold the * key

3. Reconnect power to the unit
4. Release the key after you hear 2 beeps

The LED will turn amber for a few seconds and then change to flashing red with one beep. This indicates a successful reset.

Transmission time

The transmission time of the built-in PentaCODE® transmitter is adjustable from 1 to 90 seconds. Factory default is 2 sec. See Programming Guide to change.

Sound and Light Indication

Operation Status	Red Light	Green Light	Yellow Light	Buzzer
Power on	Bright	—	—	Short Ring
Stand by	Bright	—	—	—
Press keypad	—	—	—	Short Ring
Operation successful	—	Bright	—	Short Ring
Operation failed	—	—	—	3 Short Ring
Enter into programming mode	—	—	Bright	Short Ring
In programming mode	—	—	—	Short Ring
Exist from the programming mode	Bright	—	—	Short Ring
Open the door	—	Bright	—	Short Ring
Alarm	Bright			Short Ring

Programming Guide

Enter Programming Mode (One beep, green light flashes once, red light "On" to confirm you are in programming mode.)	* → Master code → # 888888 is the factory default master code After 1min with no button pressed keypad will exit programming mode
Exit from the programming mode	* Exit is confirmed with flashing red light.
Note: The below changes can only be done while in programming mode.	
Change the master code (Orange light confirms you are in change mode)	0 → New code → # → New code → # The master code must be 6 digits long.
Add a user (Orange light confirms you are in adding mode. Green light flash indicates a user has been added.)	1 → user ID number → # → PIN → # ID number can be between 1- 2000. The PIN is any 4 – 8 digits with the exception of 1234 which is reserved. Users can be added continuously without existing from programming mode as follows: 1 → User ID No → # → PIN → # → User ID No 2 → # → PIN → # Press # * to Exit.
Delete a user (Orange light confirms you are in delete mode. Green light flash indicates a user has been deleted.)	2 → User ID number → # Users can be deleted continuously without existing programming mode. Press # * to Exit.
Delete All users Warning : This option will delete all user's	2 → 0000 → # (Orange light confirms you are in delete mode. Green light flash indicates all users have been deleted.)
Change transmission time	4 → 1 – 90 → # Press * to Exit. Default is 2 sec (Orange light confirms you are in time change mode. Green light flash indicates that time has been changed.)
Note: The below changes can only be done while out of programming mode.	
To activate the built-in PentaCODE® transmitter	PIN → # (Green light comes "ON" for the transmission time.)
Change a user's PIN (Red light "ON" confirms you are in User Change mode)	* → ID Number → # → Old PIN → # → New PIN → # → New PIN → # (Green light comes "ON" when the pin has been changed.)

Sound and Light Settings

Light and Sound Setting

(Note: The below changes can only be done while in programming mode.)

To set keypad backlight	7 → 4 → # To disable keypad backlight 7 → 5 → # To enable keypad backlight (Factory default) Press * to Exit.
To set top light	7 → 6 → # To disable the red light 7 → 7 → # To enable the red led light (Factory default) Press * to Exit.
To set keypad tone	7 → 8 → # To disable the keypad tone 7 → 9 → # To enable the keypad tone (Factory default) Press * to Exit.

Keypad Lockout

(Note: The below changes can only be done while in programming mode.)

If there are 10 incorrect Pin entered in a 10 minute period, the keypad will go into a lock out mode for 12 0 minutes. This feature is disabled by factory default.

Keypad Lockout	7 → 0 → # To disable keypad lockout (Factory default) 7 → 1 → # To enable keypad lockout Press * to Exit.
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Programming to Penta Receiver

The PCKeypad will work with all of Elsema's Penta series receivers. There are 2 methods of programming the Keypad to the receiver.

12- Way Dip Switch Coding

1. Remove the back cover of the keypad using the supplied screwdriver.
2. Match the 12-way dip switch to the receivers 12-way dip switch.
(DO NOT USE THE DEFAULT FACTORY SETTING FOR THE 12-WAY DIP SWITCH AS THIS IS A COMMON CODE).
3. Test the keypad by typing in a valid user pin code.

Encrypted Coding – (All 12-Way Dip Switches must be “Off”)

1. Make sure that all 12-way dip switches are “Off”.
2. Type in a valid user code. (the transmitter will transmit for 2 second (default))
3. With-in the 2 second (or while the transmitter is transmitting) press the program 1 button on the receiver.

Program and test the keypad with the receiver prior to installation.

Keep records of who is using the ID Numbers and Pins. This makes future additions and maintained easy.

Keep this document in a secure and safe place.

User ID Number	Name of User	Pin
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
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25		

Use Microsoft Excel to create a longer list. 2000 User ID numbers can be added. Visit www.elsema.com to see our full range of Gate and Door Automation Products

Documents / Resources



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WK433 Wired Keypad, WK433, Wired Keypad

References

-  [Automatic Gates | Wireless Remote Control | Elsema](#)
-  [Automatic Gates | Wireless Remote Control | Elsema](#)