

# CP5-RX User Manual



#### 1. Introduction

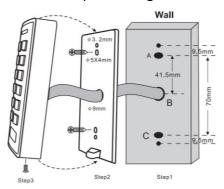
The CP5-RX is a Wiegand output keypad with integrated proximity reader. It can read 125KHz EM & HID cards and 13.56MHz Mifare cards. Because of its IP66 waterproof rating, it can be mounted either indoors or outdoors in harsh environments.

# 2. Specification

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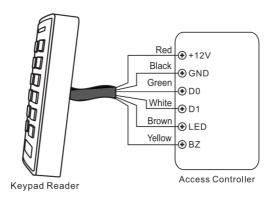
### 3. Installation

- Drill 2 holes (A, C) for the screws and a larger hole (B) for the cable.
- Knock the wall plugs into the holes A & C.
- Attached the back plate to the wall with the two screws.
- Thread the cable through the cable hole.
- Attach the unit to the back plate using the bottom retaining screw.



## 4. Wiring

Colour	Function	Notes
Red	Power +V	9-18Vdc
Black	GND	Ground
Green	D0	Wiegand data 0 output
White	D1	Wiegand data 1 output
Brown	LED	Green LED light control
Yellow	BUZZER	Buzzer control



# 5. Programming

You can change the configuration settings according to your application if required.

#### Set master code

The 4-6 digit master code is used to prevent unauthorised access to the system. We highly recommend changing the master code and keeping a record of it. Default master code is 123456

1. Enter programming mode	* Master code #  123456 is default master code
2. Change master code	<b>0</b> New Master code # New Master code # The master code is any 4-6 digits
3. Exit programming mode	*

## Set Wiegand output format for EM card

1. Enter programming mode	* Master code #
	123456 is default master code
2. Wiegand input bits	<b>1 26-37 #</b> (Factory default is 26 bits)
3. Exit programming mode	*

## Set Wiegand output format for Mifare card

1. Enter programming mode	* Master code #
	123456 is default master code
2. Wiegand input bits	<b>2 26-37 #</b> (Factory default is 26 bits)
3. Exit programming mode	*

## **Set PIN output format**

1. Enter programming mode	* Master code #  123456 is default master code
2. Wiegand input bits	3 0-2 #  0 = Virtual card number output  1 = 4 bit output (default)  2 = 8 bit output
3. Exit programming mode	*

# Reset to factory default

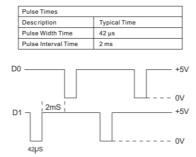
Power off the device. Press \* and power on. Hold the \* button for 3 seconds, then release it.

Note: During the process there will be no change of LED and no beeps.

## 6. Data Signal

The below table shows the wave form of pulse width time (the duration of a pulse) and pulse interval time (the time between pulses) of the Wiegand data output from the reader.

(Example 1010)



# 7. Keypad transmission format

#### Virtual card number

The reader will transmit the PIN data when it receives the last key (#) after PIN code.

Example PIN code: 999999

Press 999999#, then the output format will be: 0000999999

#### 4 bits

The reader will transmit the PIN data after every key is pressed: 1 (0001), 2 (0010), 3 (0011), 4 (0100), 5 (0101), 6 (0110), 7 (0111),

8 (1000), 9 (1001), \* (1010), 0 (0000), # (1011)

#### 8 bits

The reader will transmit the PIN data after every key is pressed:

1 (1110 0001), 2 (1101 0010), 3 (1100 0011), 4 (1011 0100),

5 (1010 0101), 6 (1001 0110), 7 (1000 0111), 8 (0111 1000),

9 (0110 1001), \* (0101 1010), 0 (1111 0000), # (0100 1011)