

User Manual

Thank you for selecting our products. Please read this manual before use.



6611KE Reader

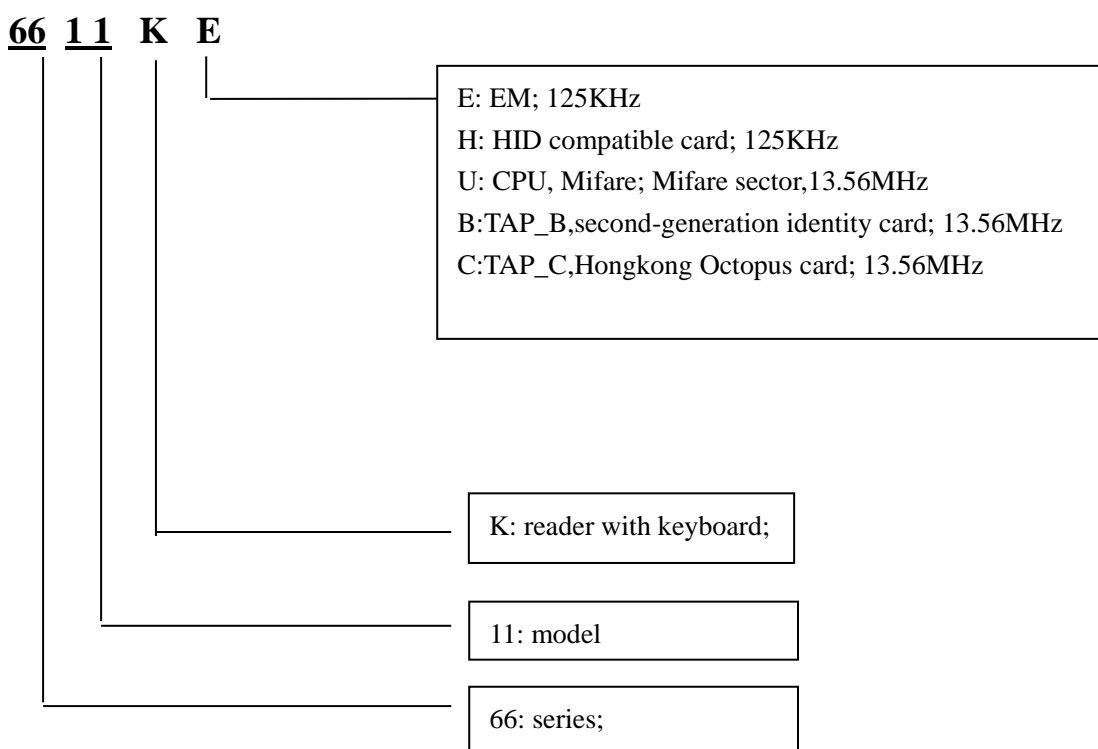
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Chapter 1 Overview

1.1 overview

Card reader model definition:



supported card type:

- E: EM card ; e.g., EM4100, TK4100 series.
- M: Mifare-card; e.g., Philips S50, S70 series.
- RC: Mifare sector; e.g. Philips, S50, S70.
- H: HID compatible card; e.g.,: 1326, 1386 tag card.
- T: Temic, e.g., E5557;
- S: 15693; e.g.: Ti series.
- B: TAP_B, e.g.: second-generation identity card;
- C: TAP_C, Hongkong Octopus card;

1.2 System parameters

Parameters:

- Power supply 12 VDC \pm 10%, 200mA
- Size: 117mm (H) x 86mm (W) x 22mm (D)
- Weight: 200 g

- frequency:

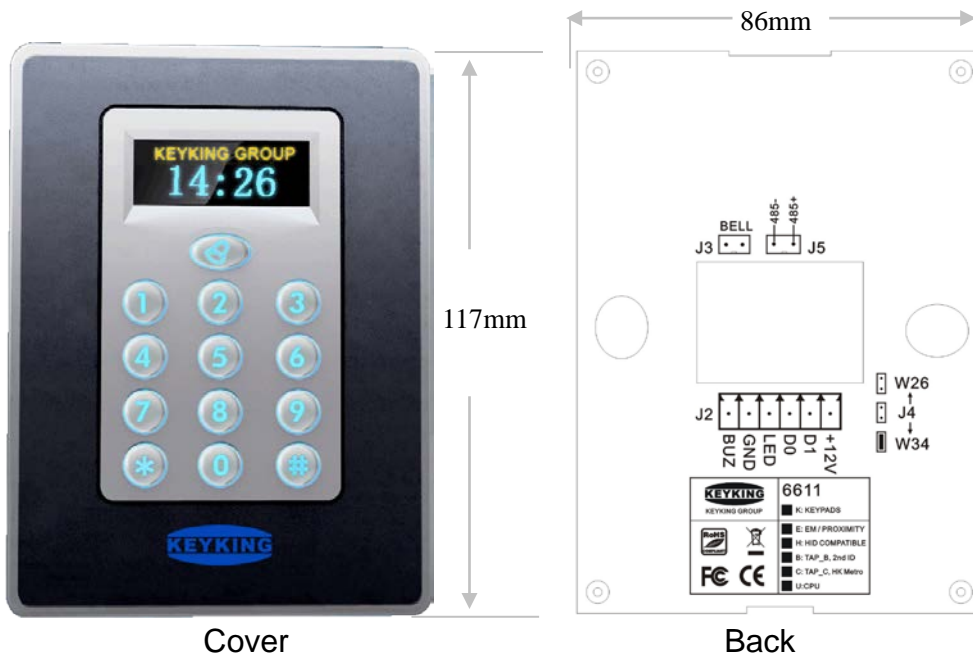
125KHZ:

- E: EM;
- H: HID;
- T: Temic;

13.56MHZ:

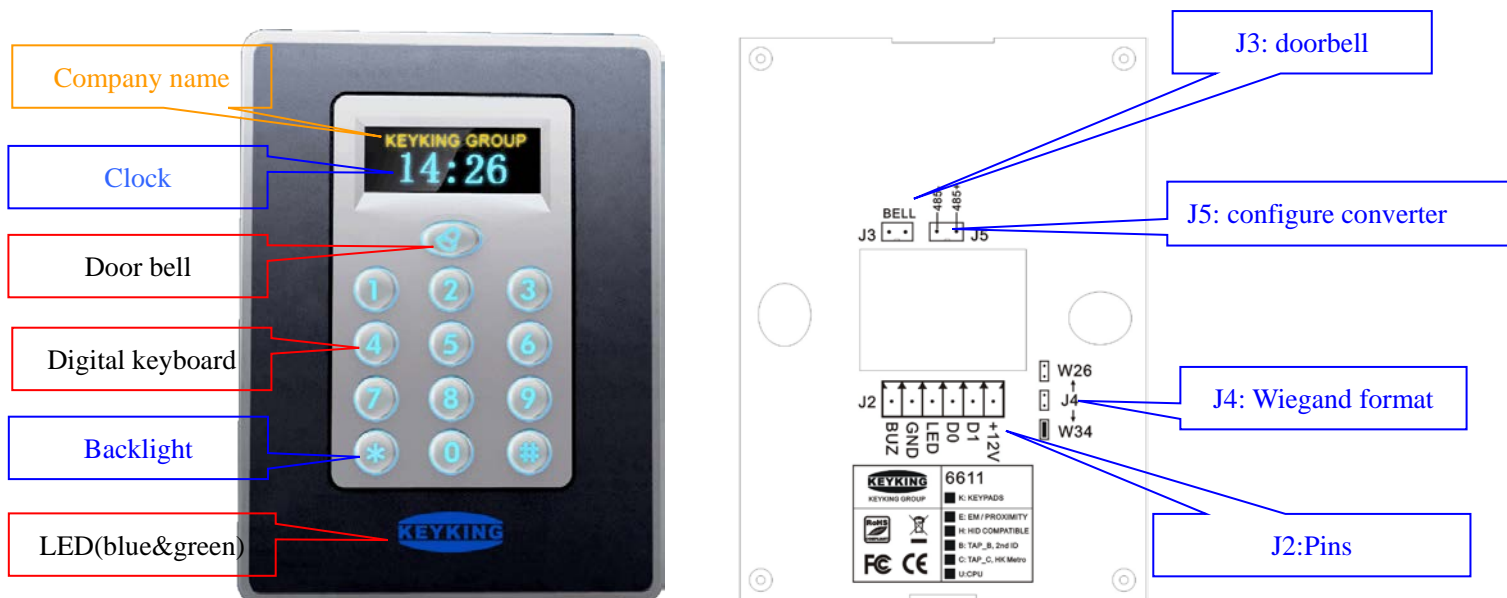
- B: TAP_B;
- C: TAP_C;
- M: Mifare;
- RC: Mifare sector;
- S: 15693;

- distance: 5-15cm
- LED indicators: two indicators, blue & green, or red & green.
- Backlight: Blue.
- Display: OLED, two colors: yellow, blue



Chapter 2 6611KE introduction

2.1 6611KE appearance:



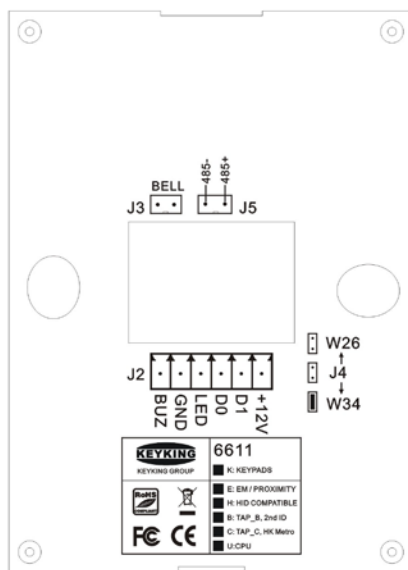
LED:

- blue LED: power indicator
- green LED: signal indicator

Digital keyboard:

NO.	KEYSTROKE	DESCRIPTION	OUTPUT	NO.	KEYSTROKE	DESCRIPTION	OUTPUT
1	1	digital 1	0001	7	7	digital 7	0111
2	2	digital 2	0010	8	8	digital 8	1000
3	3	digital 3	0011	9	9	digital 9	1001
4	4	digital 4	0100	10	0	digital 0	0000
5	5	digital 5	0101	1	*	Cancel / start	1010
6	6	digital 6	0110	12	#	Enter / OK	1100

2.2 6611KE wiring



J2: wiring description:

NO.	Pin	descriptin	remark
1	+12V	Power	
2	D1	Data 1	
3	D0	Data 0	
4	LED	LED controller, when the power is shorted, the LED indicator color changes	
5	GND	Ground	
6	BUZ	Buzzer controller, when the power is shorted or receives an external sensing signal, the buzzer sounds a "beep"	

J3: Doorbell:

- ✓ Normally, the J3 jumper is disconnected.
- ✓ When the doorbell button is needed, the J3 jumper is shorted

2.3 Mode selection:

J4: Wiegand selction (Jumper setting):

- Disconnected: The output format of the card reader is Wiegand 26
- shorted: The output format of the card reader is Wiegand 34

2.4 Communication interface

J5 485 communication

- ◆ Connect with a PC for configuration
- ◆ Using IC232 or RS485HUB converter to Connect

J5 RS485

- ◆ 485-
- ◆ 485+

Chapter 3 Keyboard output

The card reader will process the key input information and transmit the data to the main controller in the Wiegand signal line. The card reader outputs the corresponding ASCLL code (hexadecimal) for each key information. The user interface will display general information.

The keystroke corresponds to the following key value:

0 = 0000 4 = 0100 8 = 1000

1 = 0001 5 = 0101 9 = 1001

2 = 0010 6 = 0110 * = 1010

3 = 0011 7 = 0111 # = 1011

After pressing the keystroke, the card reader will transmit the corresponding key value one by one, for example::

- If you press the “1” key, the reader will transfer the “0001” value to the main controller.
- If you press “1” and “2”, the reader will transfer the “0001” value to the main controller, and then transfer the “0010” value to the main control.

Chapter 4 Installation

4.1 Installation on the wall (Based on Internal Back box)

1. **Back box inside wall:** Determine the position of the card reader, open the hole in the wall (size larger than 86×86), and install the back box (86*86cm) in the wall after opening the hole.

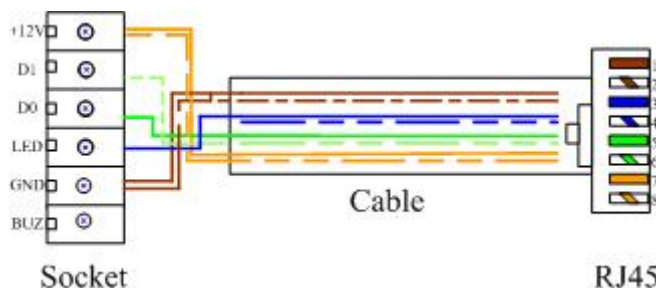


a). back box (Standard 86 bottom box, single)

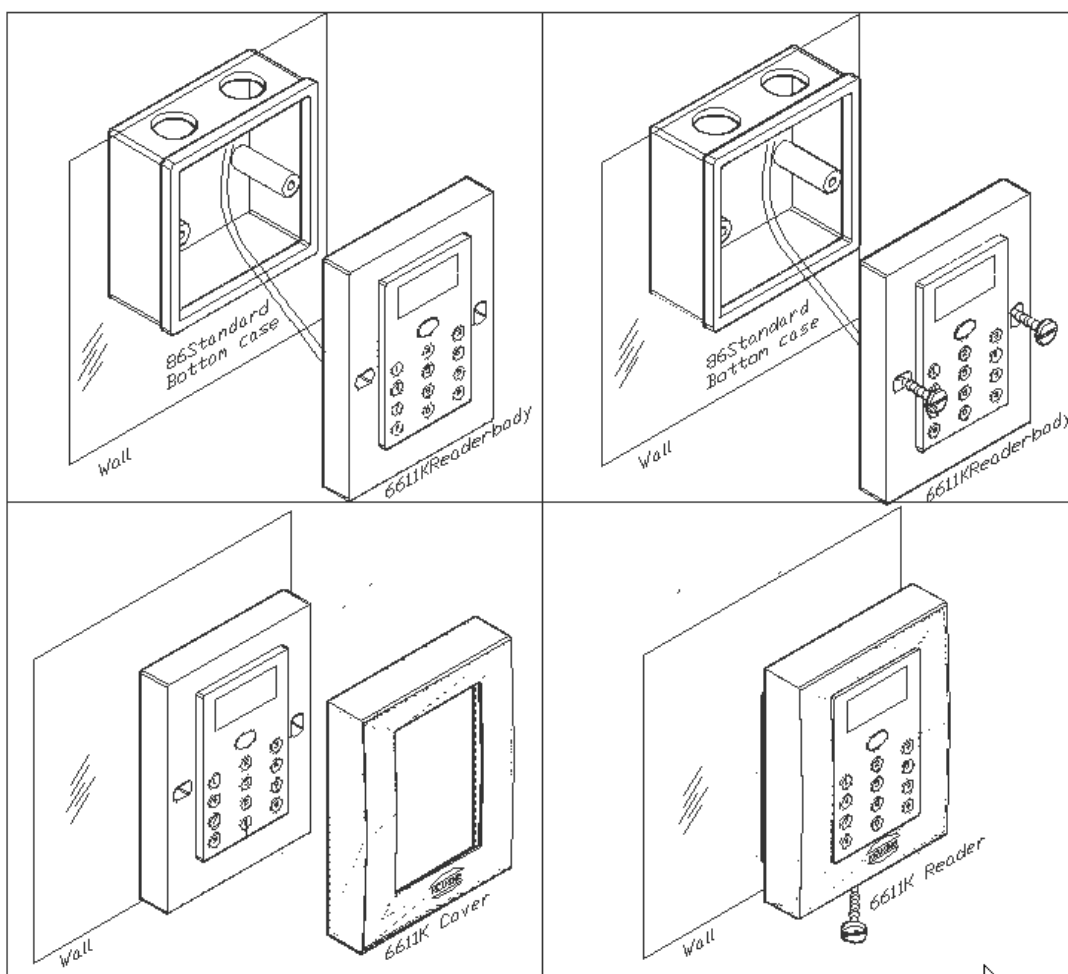


b). back box (double)

2. **Route:** Route the interface cable from the card reader to the main control board.
3. **Wiring:** Refer to the following figure to connect the card reader slot to the RJ45 crystal head, and connect the crystal head to the control board.



4. **Insert the card reader slot:** Insert the cabled card reader slot into the slot end reserved by the card reader.
5. **Jumper setting (output format):** Select the reader G26 or WG34 output format.
6. **Mount the card reader:** the card reader body is fixed on the 86 bottom box with two #6-32 x 1 inch screws.
7. **Close the back cover**



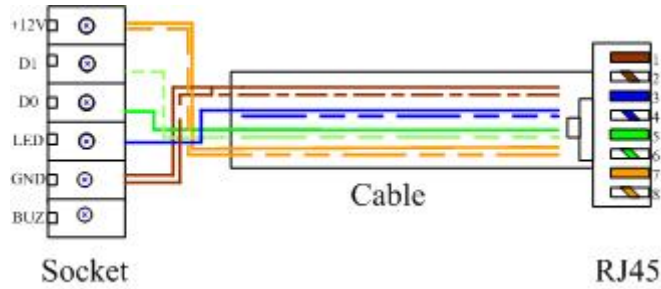
4.2 Install on the wall (Based on surface back box)

1. **Back box installation:** Determine the position of the card reader, and fix the 86 back box to the wall with four screws.

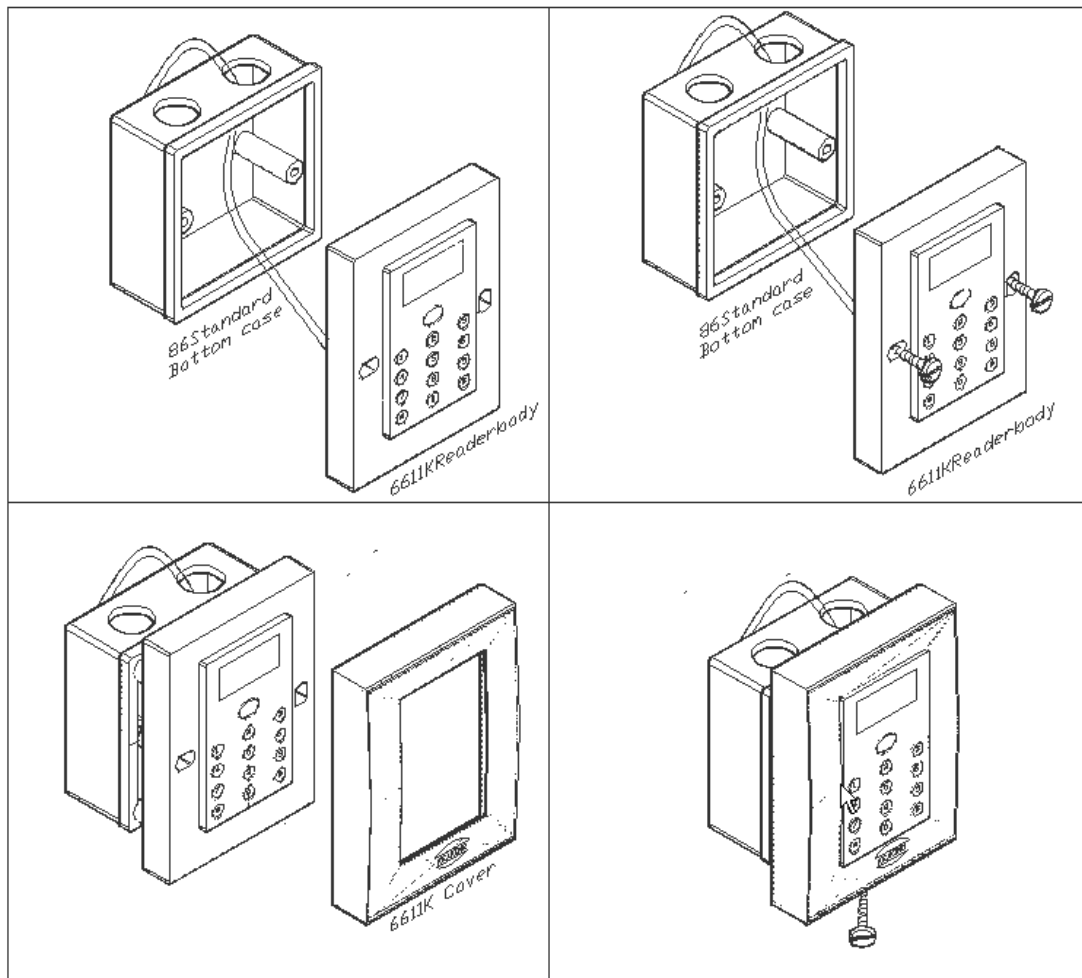


a). back box (Standard 86 bottom box, single)

2. **Route:** Route the interface cable from the card reader to the main control board.
3. **Wiring:** Refer to the following figure to connect the card reader slot to the RJ45 crystal head, and connect the crystal head to the control board.



4. **Insert the card reader slot:** Insert the cabled card reader slot into the slot end reserved by the card reader.
5. **Jumper setting (output format):** Select the reader G26 or WG34 output format.
6. **Mount the card reader:** the card reader body is fixed on the 86 bottom box with two #6-32 x 1 inch screws.
7. **Close the back cover**

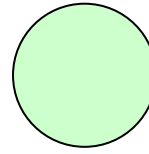


4.3 Installation on the wall (no back box)

1. **Drill a hole on the wall $\phi 30$:** Use a tapping machine to drill a hole in the wall $\phi 30$ hole



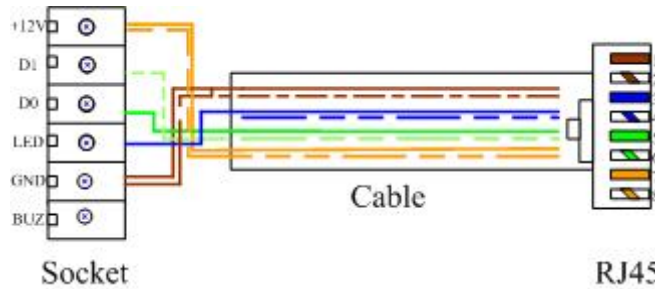
a). ϕ 30 tapping machine



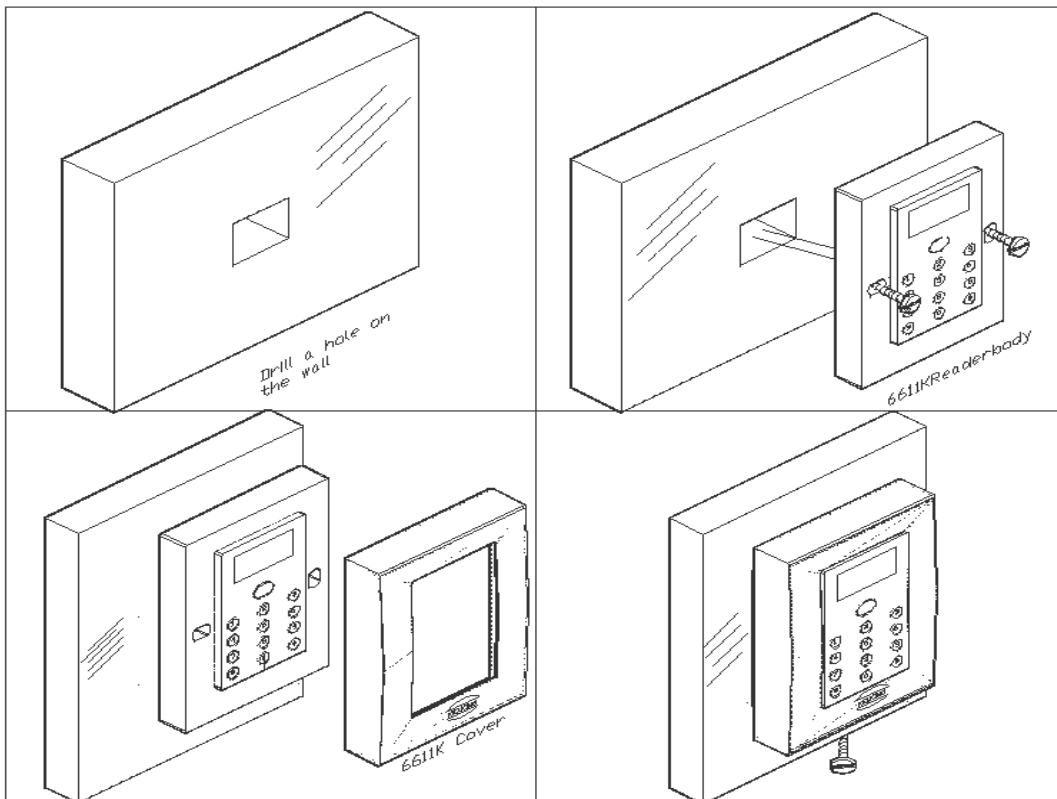
b). hole, ϕ 30

Remarks: This tapping machine can open metal and wooden walls, but cannot open stone or cement walls.

2. **Route:** Route the interface cable from the card reader to the main control board.
3. **Wiring:** Refer to the following figure to connect the card reader slot to the RJ45 crystal head, and connect the crystal head to the control board.



4. **Insert the card reader slot:** Insert the cabled card reader slot into the slot end reserved by the card reader.
5. **Jumper setting (output format):** Select the reader G26 or WG34 output format.
6. **Moute the card reader:** Fix the reader to the wall with two ϕ 4, 30mm long screws.
7. **Close the back cover**



4.4 Precautions

Cable precautions:

- 1) **Cable type:** super 5-type line.
- 2) **same ground:** the reader and the control board must use the same grounding terminal. If the reader and the control board use different grounding terminals, connect the GND terminal of the card reader to the GND terminal of the main control board.
- 3) **The farthest transmission distance:** The farthest transmission distance between the card reader and the main control board is 60M.
- 4) **Protection:** Ground protection with the GND terminal of the controller.

Other notes:

- 1) **Metal interference:** The card reader cannot be mounted on a metal object, otherwise it will affect the distance of the card reader. The card reader cannot read the card, so it must be ensured that the card reader cannot be installed near the metal .

Chapter 5 Configuration

5.1 OLED setting

6611KX Reader Display Settings: 6611 Series Reader Configuration Application.

- Before running this application, please make sure the RS232-485 converter is connected.
- Before running this application, please confirm that the PC serial port COM is not occupied.

The 6611KX Reader Display setting shows as bellow.



Figure 5-1

- **Serial Port:** Select the serial port connected to the 6611K card reader, such as COM1. Click the **Open** or **Close** button to open/close the serial port.
- **Company Name:** User-defined company name and choose the location of the name on the display (**Left**, **Center**, **Right**).
- **Keyboard mode:**
Visual (1234): The display shows the keyboard number. For example: If you press the “1234” button, you can see that “1234” is displayed on the display.
Mask (**):** “****” is displayed regardless of input. For example: If you press “1”, you can see “****”

displayed on the display.

- **Download Current Time:** Get the current time from the PC and download it to the card reader.
 - Selected:** synchronize the card reader time with the PC.
 - UnSelected:** Do not download the current time from the PC to the card reader, keep the original card reader time
- **Clear:** click the **Clear** button, Clear message box information.

5.2 wiring

6611 series card reader connect with PC and converter



Figure 5-2

5.3 Configuration

Before connecting the cable, please make sure that the 6611 reader power is off

1. **connection:**

- connect "IC232 485+" to "6611K 485+"
- connect "IC232 485-" to "6611K 485-"
- Connect the DB232 female connector to the serial port of the PC.
- 6611KE power on
- IC-232 power on



Figure 5-3 Diagram for Downloader

Notes : Communication baud rate **9600Bps**.

1. When using IC232 converter ,set DIP switch sw1,sw3,sw4 ON, set sw2 OFF

2. When using 485HUB, there is no need to adjust the baud rate .

2. **6611KX Reader Display Settings:**

- Select the serial port connected to the 6611K card reader, and open it
- Fill the company name and choose the location of the name on the display
- Choose button mode , visual or mask
- Download time or not .
- Click **OK** button. Message box shows “Succeed to configure reader” . .
- Done .



5.4 Change time using Keyboard

You can change the 6611KE time via the keyboard.

Steps:

1. Power off 6611KE.
2. Power on 6611KE.
3. You can see "Update clock?"
4. Enter “201904191726” according to “Year, Year, Month, Day, Day, and Time”, then press “#” to confirm.
5. Done