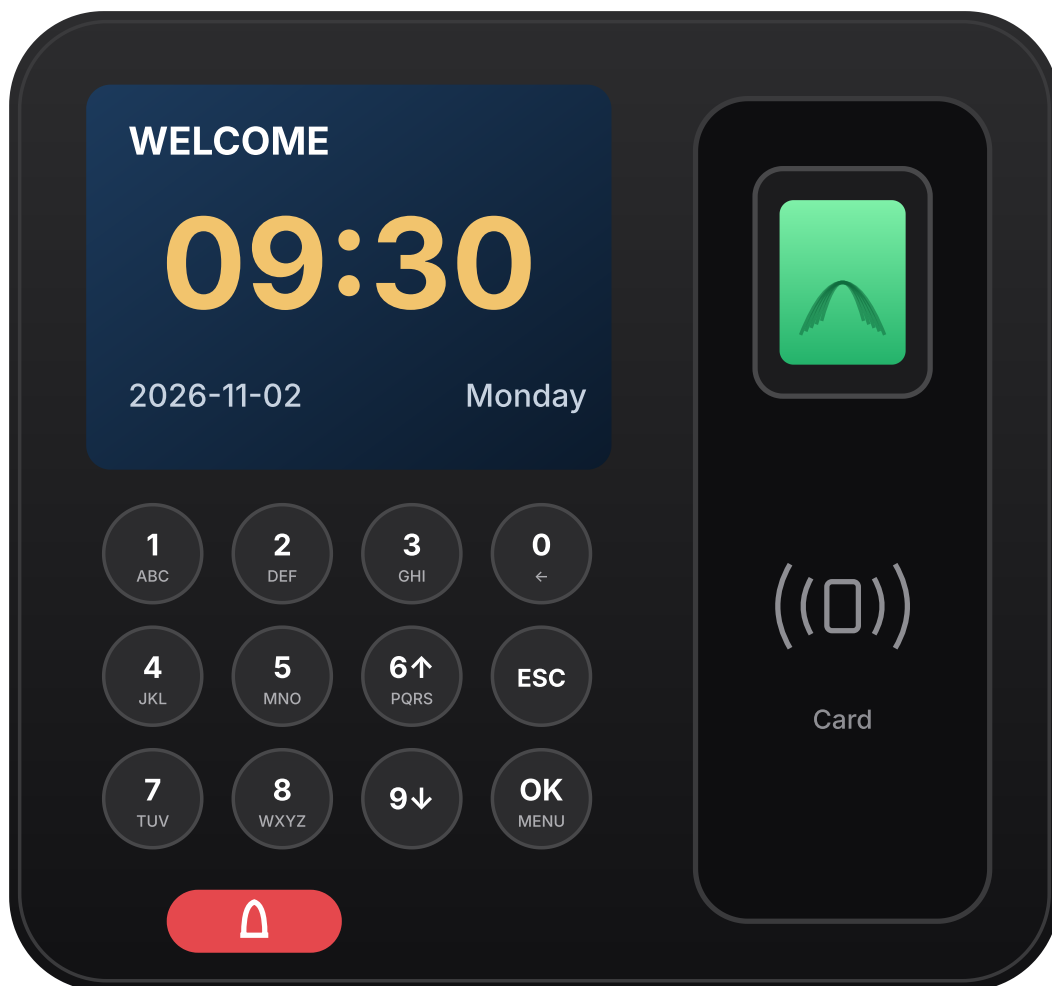


E86 Fingerprint Attendance & Access Control

Fingerprint, card and PIN in one terminal. Marks attendance, opens the door, and gives you reports on a USB pen drive.



Fingerprint · card · PIN

Three ways to identify each person.

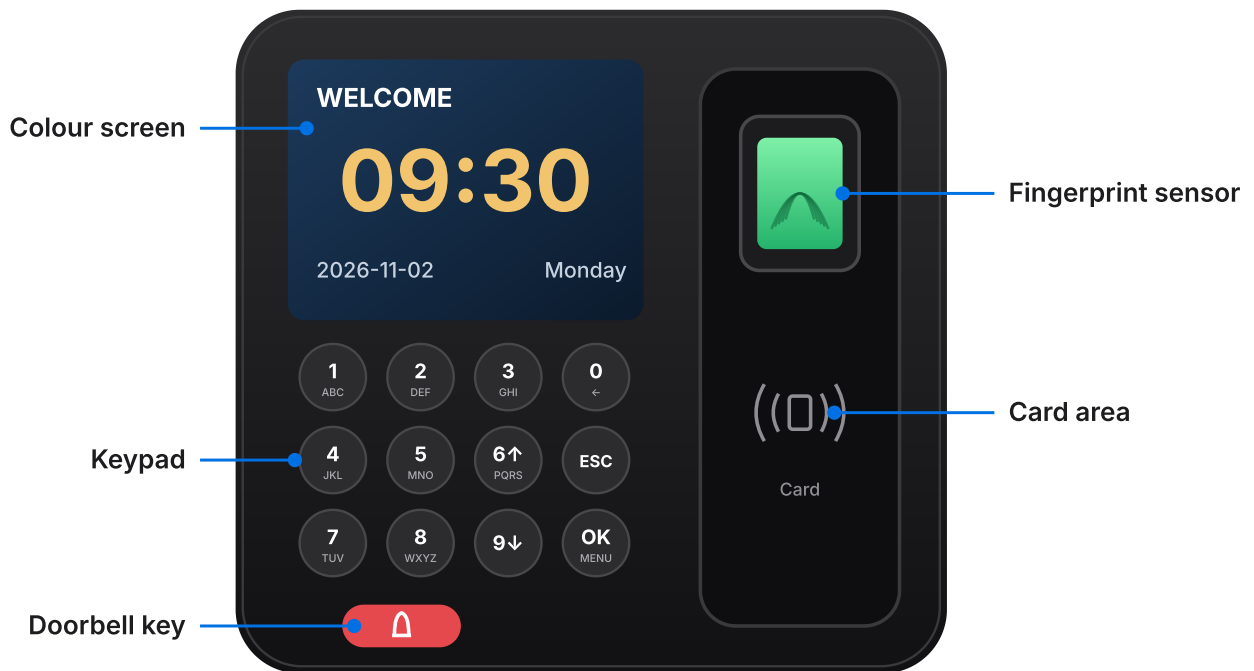
Excel on USB

Reports and records straight to a pen drive.

Door control

Lock output, exit button, door sensor and doorbell.

Everything on the front.



THE KEYS

OK / MENU	Opens the menu. Inside a menu, confirms and saves.
ESC	Goes back one step, or leaves a screen.
0 – 9	Enter numbers. 0 deletes, 6 moves up, 9 moves down.
Bell	Doorbell key.

The side of the unit has a USB port for the pen drive and a small Reset hole.

SPECIFICATIONS

The numbers.

Identification	Fingerprint, card, password (PIN)
Matching	1:N and 1:1
Fingerprint capacity	2,000
Card capacity	2,000 ID/IC cards
Record capacity	1,00,000 records
Screen	2.4-inch colour TFT
Keypad	13 mechanical keys
Speed	Identifies in 1 second or less
False rejection (FRR)	1% or less
False acceptance (FAR)	0.0001% or less
Data transfer	USB pen drive (U disk)
Wiegand	26 / 34-bit, in and out
Door control	Lock relay (COM / NO / NC), exit button, door sensor
Relay rating	1 A, 120 V AC / 28 V DC
Alarms	Duress (threaten) alarm, tamper alarm
Bell schedule	20 sets of bells, doorbell output
Voice prompts	5
Language	English
Works	Offline, standalone
Power	12 V DC, 1 A supply · draws 250 mA
Operating temperature	0 °C to 45 °C
Humidity	20% to 60%
Processor	J6408A, ARM

Indoor use. Fit the E86 indoors or in a fully covered, dry spot. It is rated for 20% to 60% humidity.

Set it up in three steps.

Register a super administrator before anyone else, so nobody else can change the settings. Then set the office timing.

1 Register the super administrator

Administrator registration works the same way as user registration (see the next page). Register the **super administrator first**. Only after that can you register ordinary administrators.

Keep a second admin. If the only admin leaves, nobody can open the menu. Register one more trusted admin.

2 Set the shift

The shift sets the working time used in attendance reports.

MENU > Management > Setting > SHIFT > Set time

Enter the time, press **ESC**, then press **OK** to save.

3 Check the date and time

The welcome screen shows the date and time. Every attendance record uses this clock, so make sure it is right before staff start punching in.

Register a user.

Every user gets a number. Give each person a fingerprint, a card, a PIN, or more than one.

Fingerprint

MENU > Management > Add > User > Regist > Shift / No. > Input fingerprint

Place the **same finger three times**. Wait for the screen to say it is complete.

Card

MENU > Management > Add > User > Regist > No. / Shift > Swipe card

Hold the card on the card area. The number on the screen must match the number printed on the card.

Password (PIN)

MENU > Management > Add > User > Regist > No. / Shift > Input password

Type the PIN, press **OK**. Type the same PIN again to verify, press **OK**.

Better fingerprints. Use a clean, dry finger and press it flat in the middle of the sensor. Register two different fingers for each person, in case one is cut or worn.

Edit, report, control.

Edit a user

MENU

>

Management

>

Edit

>

Pick user

>

Edit information

Change the user's name or shift, or add more fingerprints or a card.

Download reports to a pen drive

MENU

>

U disk management

>

Put U disk

>

Pick report

>

OK

Plug a pen drive into the USB port on the side first. You can export:

- Personal report
- All reports
- New records
- All records

Open the files on a computer in Excel.

Access control settings

MENU

>

Sys setting

>

Access set

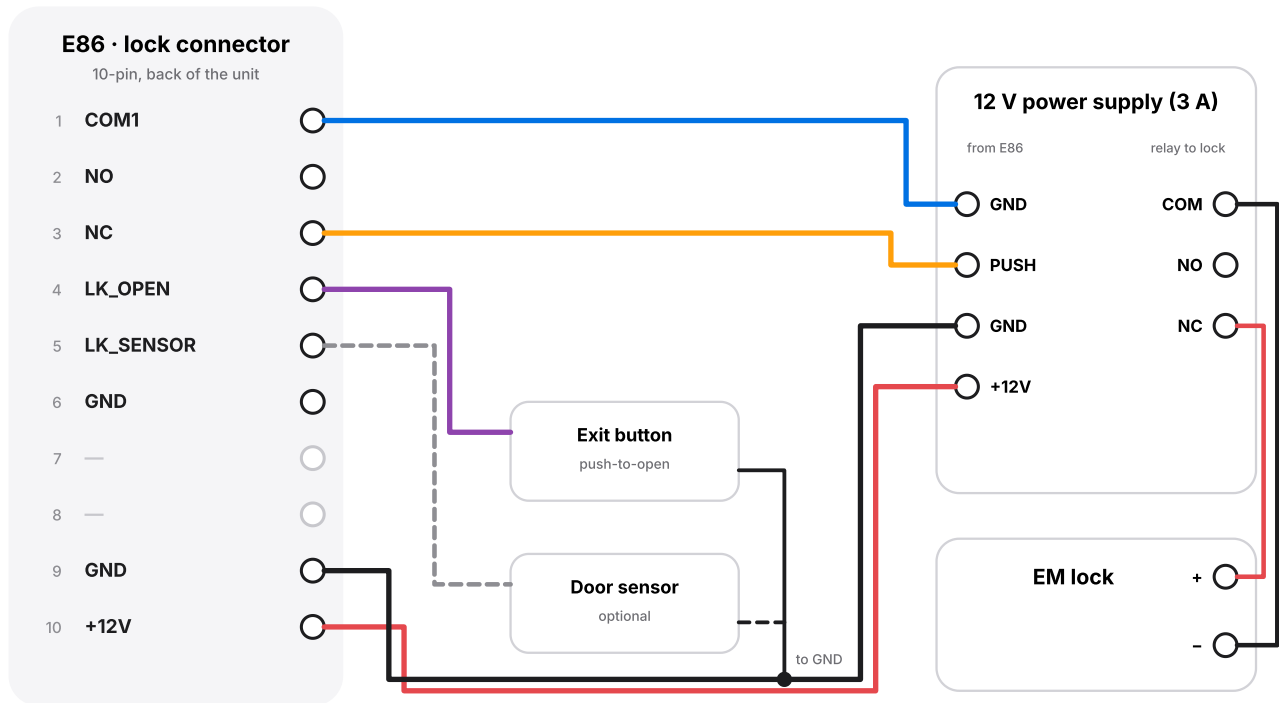
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OK

Set the door functions here, including the door-open-overtime warning. Press **OK** to save.

Connect the door.

Do the wiring with the power off. The power supply's own relay switches the EM lock.



Check before you close up. Power on with the door shut. The lock must hold, and a registered finger must release it. If the lock stays released all the time, move the wire on pin 3 (NC) to pin 2 (NO).

OTHER CONNECTIONS

Bell and Wiegand.

BELL AND WIEGAND CONNECTOR

PIN	NAME	USE
1	BELL1	Switches a 12 V bell
2	BELL2	
3	D1_IN	Wiegand reader in
4	D0_IN	
5	SGNAL1	Signal
6	D1_OUT	Wiegand out to a controller
7	D0_OUT	
8	GND	Common ground

LOCK CONNECTOR

PIN	NAME	USE
1	COM1	Lock relay
2	NO	
3	NC	
4	LK_OPEN	Exit button
5	LK_SENSOR	Door sensor
6 · 9	GND	Ground
10	+12V	Power in

CARE AND TROUBLESHOOTING

Finger not recognised	Clean and dry the finger and the sensor. Press flat. Register the finger again from Edit a user.
Card not accepted	Check the number on screen matches the card when you register it. Hold the card flat on the card area.
Pen drive not read	Use a pen drive formatted on a computer, and insert it before choosing Put U disk.
Screen blank	Check the 12 V supply and the +12V and GND wires on pins 9 and 10.
Cleaning	Wipe the sensor and screen with a soft, dry cloth. No water or sprays.

Need help?

Guides, kits and spare cards at navkarsys.com

