

2.4 Inch Color Screen Quick Start Guide

Features:







1. 2.4" TFT-LCD color screen
2. Standard Wiegand Input and Output interfaces are compatible with most all 3rd party 26-bit Wiegand readers and access control panels.
3. USB HOST port makes offline data backup/management fast & easy.
4. Relay contacts for alarm, electric lock, exit button, and wired door bell.
5. Reads fingerprint and Password.

Specifications:

Fingerprint capacity	3,000
Transaction capacity	100,000
Hardware Platform	ZEM720
CPU	ZK 6001, 400Mhz
Memory	64M Flash, 32MSDRAM
Fingerprint Sensor	ZK optical sensor
Display	2.4" TFT LCD color screen
LED Indicator	Red, Green
Communication	Ethernet (10/100M) , RS485, USB-HOST,
Wiegand signal	Wiegand Input and Wiegand Output
Identification speed	≤2 sec
FAR	≤0.0001%
FRR	≤1%
Operating Temperature	0-45°C
Operating Humidity	20%-80%
Language	English, Spanish, Portuguese, French...
Power Supply	12V DC, 3A
Access control interfaces	Electric lock, alarm, exit button, wired door bell
Dimension	80*183*42mm (L*W*D)

Basic Contents:

 <p>F18 Fingerprint Terminal</p>	 <p>Metallic Mounting Plate</p>	 <p>Wall Mounting Screws and Holders</p>
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 <p>Star-shape Screw for Mounting Plate</p>	 <p>Star-shape Screw Driver</p>	 <p>Mini-USB Cable</p>
 <p>Software CD</p>	 <p>Installation Guide</p>	 <p>Mounting Paper</p>

Optional Accessories

 <p>FR1200 Fingerprint Slave Reader</p>	 <p>K1 Exit Button</p>	 <p>Alarm Indicator</p>
 <p>Electric Strike Lock</p>	 <p>Electric Magnetic Lock</p>	 <p>Power Supply Controller</p>
 <p>Mifare Integrated Module and Card</p>	 <p>USB Memory</p>	 <p>12V3A Power Adaptor</p>

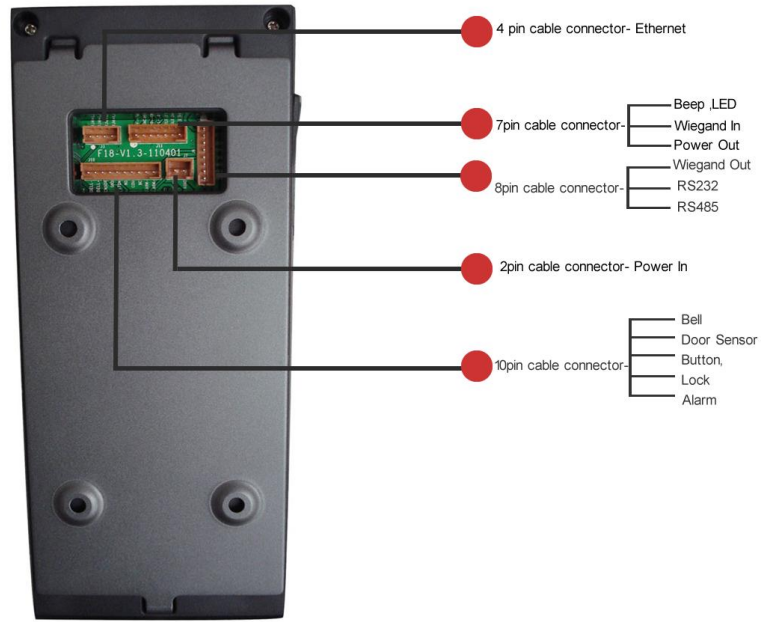
Front



Side



Rear



Installation Diagram



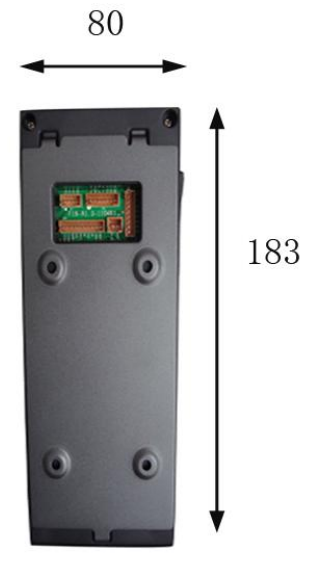
Product Dimensions (mm)



Front

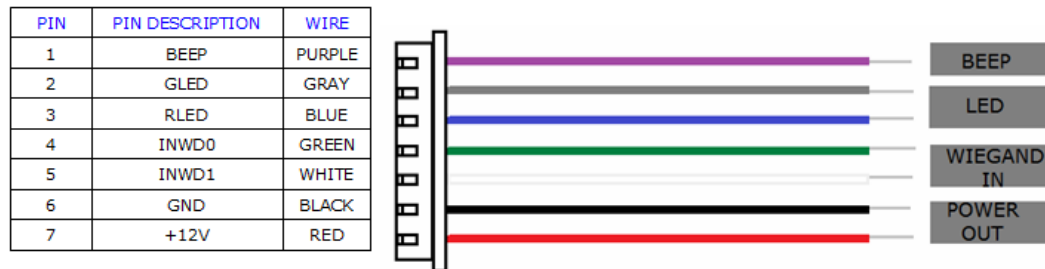
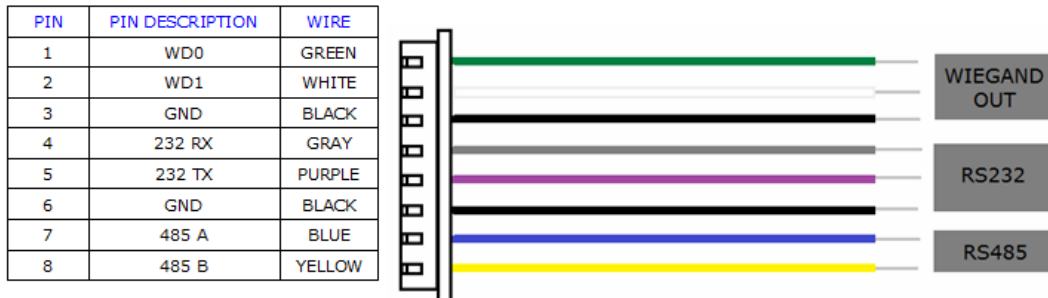
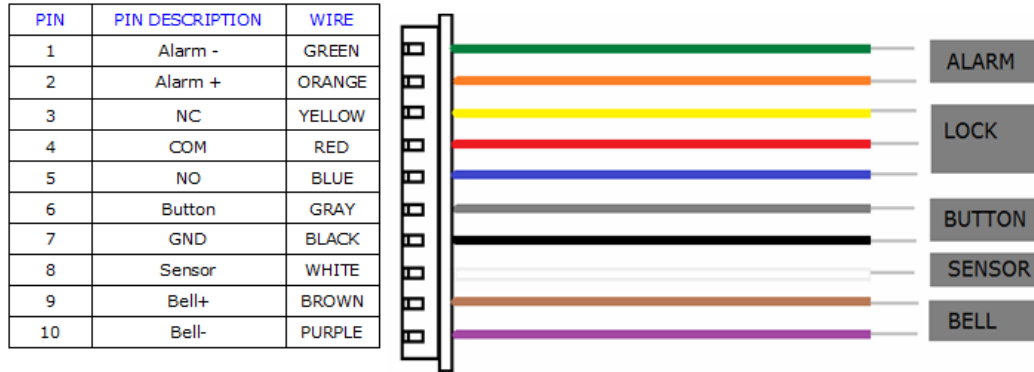


side



Mounting Plate

Cable Specification



Important Notes

- Do not place the F18 under strong light.
- Use regulated 12V DC 3A power source (supplied from control panel or separately purchased power supply).
- Do not place the F18 in a vulnerable location where it might be subjected to vandalism.

Mounting the Unit

- Locate the appropriate area for the unit. Place the unit approximately 5 ½ feet above

the ground level so that the users are comfortable in using the unit with fewer chances of errors.

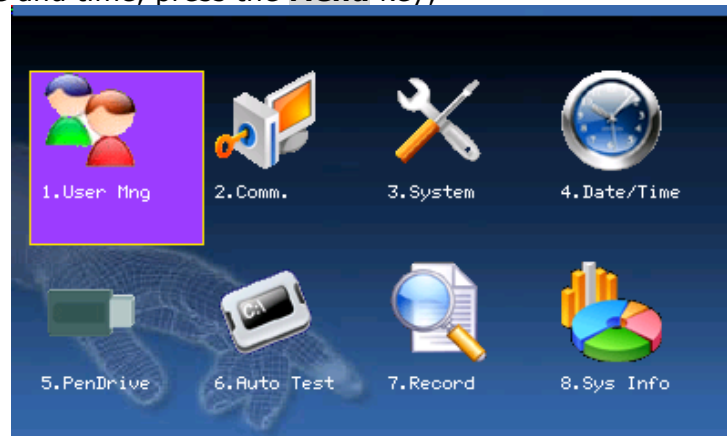
- Create conduits for the power and network cable on the wall so that the unit receives the connections from the back of the wall.
- Remove the screw at the bottom of the unit when held vertically as shown in the picture below:
- This will remove the back plate of the unit.
- Install the back plate of the unit on to the wall and connect the power and network cables from the behind the back plate.
- Connect the wires of the access control terminal of the device, including lock control, exit button, door sensor, doorbell and alarm etc.
- Secure the front of the unit on the back plate by reinstalling the removed screw from the bottom of the unit earlier.

Hardware Setup

- Power on the unit by supplying 12V DC to the power and GND pins on the back of the unit. The power supply is not supplied with the unit. Please make sure that the power requirements are strictly met to avoid permanent damage to the unit.
- After the Power on, the device will show the date, day and time on the screen.

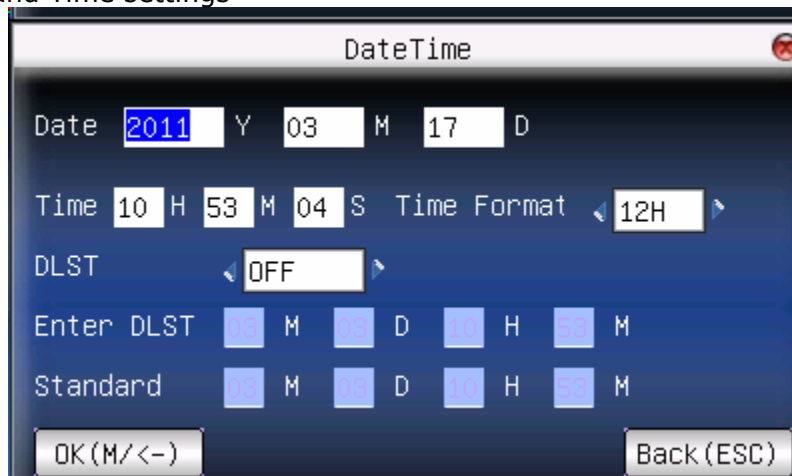
Date and Time Setup

To change the date and time, press the **Menu** key;



From within the Main Menu, scroll with the ◀/▶ and ▲/▼ keys until **Date/Time** is highlighted and press **OK**.

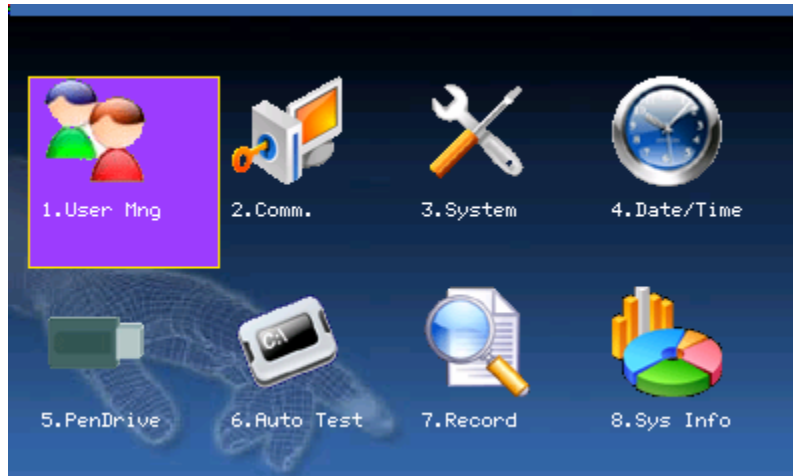
Changing Date and Time settings



This screen allows you to manually set the date and time.
Use the scroll keys ▲/▼ to place the cursor either in the Date or Time fields.
Enter the correct Date and Time.
When finished, press **OK** or highlight **OK (M/<-)** and press **OK** to save.
Press **ESC** to cancel the operation and return to the previous menu.

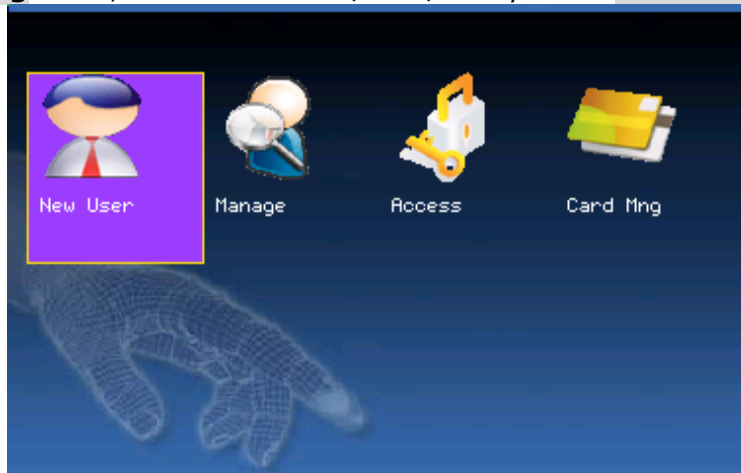
User Enrollment

To start user enrollment, press the **Menu** key on the F18, it will prompt



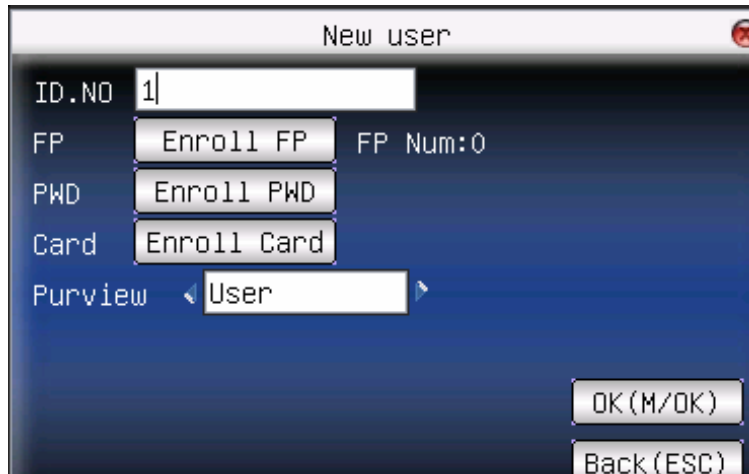
From the Main Menu, highlight and select **User Mng** to add/change/delete users' fingerprint(s), password or authority (Admin or user).

From the **User Mng** Menu, scroll with the ◀/▶ ▲/▼ keys until **New User** is highlighted:



Press **OK** to accept.

The following **"New User"** settings are available:



ID. NO (Account Number)

Unique identification number associated with each user.

Fingerprint (FP)

A user can enroll up to 10 fingerprints.

Password (PWD)

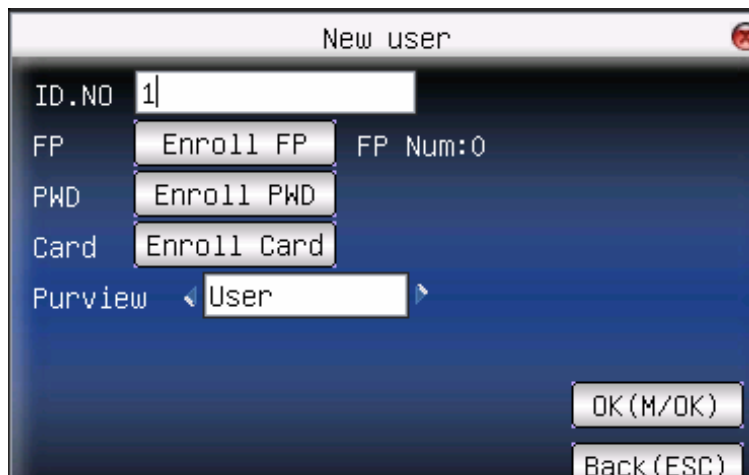
A user can enroll a password using 1 to 8 characters.

Security/Authority (Purview)

Identifies a user as a normal user or an Administrator.

a) Add New User ID. NO

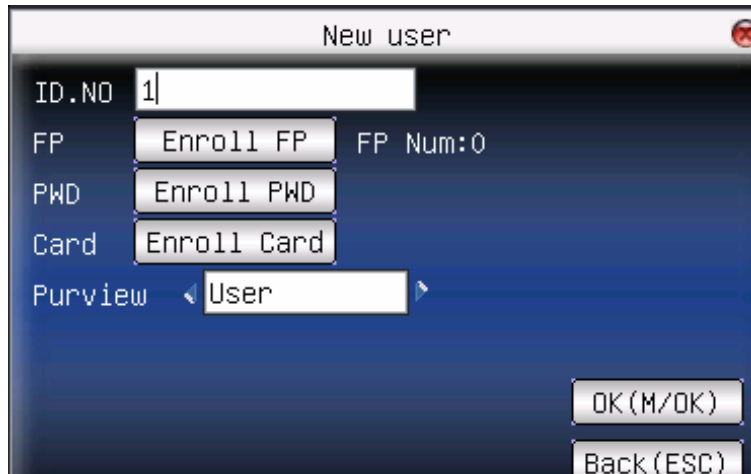
From within the New User Menu, scroll with the ▲/▼ keys until the cursor is in the **ID. NO** field:



Press **OK** to accept the default User ID, or manually enter a preferred User ID and press **OK**.

b) Enroll New User Fingerprint (FP)

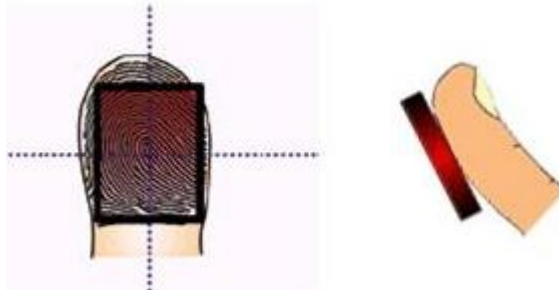
From within the New User Menu, scroll with the ▲/▼ keys until the cursor is in the **FP** field.



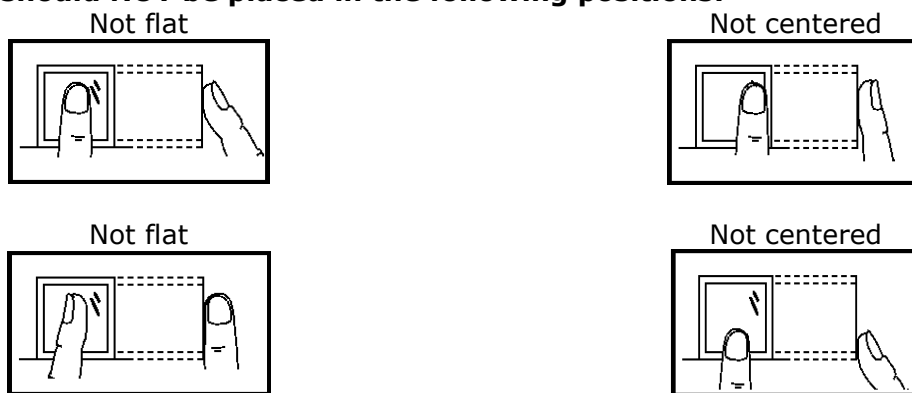
Notice "Enroll FP" will become highlighted. Press **OK** to accept selection.

Remember the rules for proper finger placement;

The user's finger should completely cover the sensor. The finger should be placed flat and in the center of the sensor. The finger should cover at least 80% of the sensor as shown below:



The finger should NOT be placed in the following positions:



Notice the following screen appears:



Place the finger you wish to enroll on the sensor, ensuring the finger is placed flat and centered.

Hold the finger still for at least two full seconds until the F18 prompts with a beep to remove it. You will then be prompted to repeat the process 2 more times, **each time using the very SAME finger.**

Notice that every time the F18 successfully records the user's fingerprint, each of the 3 green bars will become highlighted until all 3 bars are eventually highlighted.

After 3 successful fingerprint "recordings", the user's fingerprint template is now successfully registered in the F18 database.

Press **OK** if you would like to continue recording additional fingerprint/templates.

NOTE: It is highly recommended that users register at least one finger from each hand.

Since the fingerprint sensor may have difficulty reading fingers with cuts or scratches, having a "backup" finger(s) registered ensures that the user will always be recognized by the F18. If one finger is temporarily rendered "unreadable" by recent cuts or scratches, the user can use their backup finger.

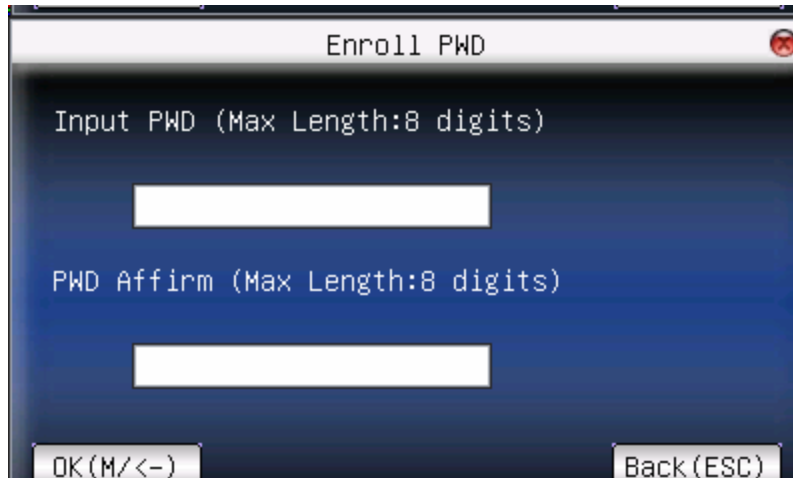
After fingerprint registration is completed, press the **ESC** key to return to the New User menu.

c) Enroll New User Password (PWD)

NOTE: A password is NOT required. However, a password can be used if a user is having difficulty having his/her fingerprint recorded or recognized by the F18.

From within the New User Menu, scroll with the **▲/▼** keys until the cursor is in the **PWD** field. Notice **Enroll Pwd** will become highlighted: Press **OK** to accept selection.

Notice the following screen appears:



In the "**Input Pwd**" field, enter a password of 1 to 8 characters.

Then scroll down to the "**Pwd Affirm**" field and re-enter the same password.

After completed, scroll with the ▲/▼ keys until **OK (M/<-)** is highlighted. Then press the **OK** key to accept.

After saving the password, the screen will return to the New User menu and the icon will display alongside Enroll Pwd. This indicates a password has been saved and registered to that user.

d) Enroll Card

Scroll ▲/▼ keys to locate the cursor on "enroll card" button, and press "OK" to enter the registration card

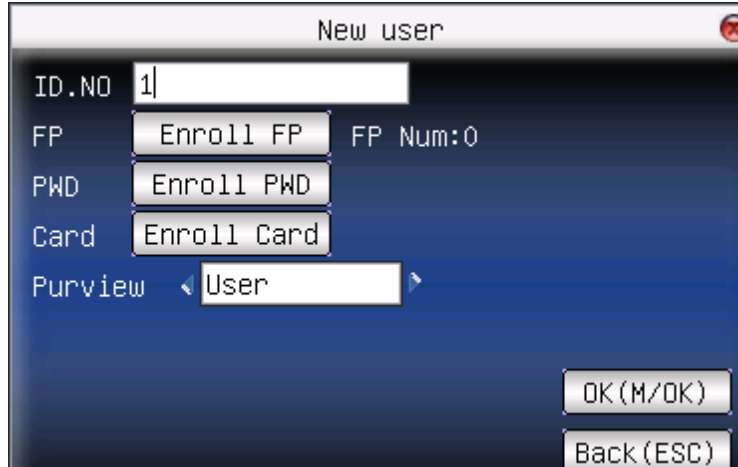


Slightly swap the card near the proximity area, press OK key to save after the device found the card number.

e) Set New User Authority (Purview)

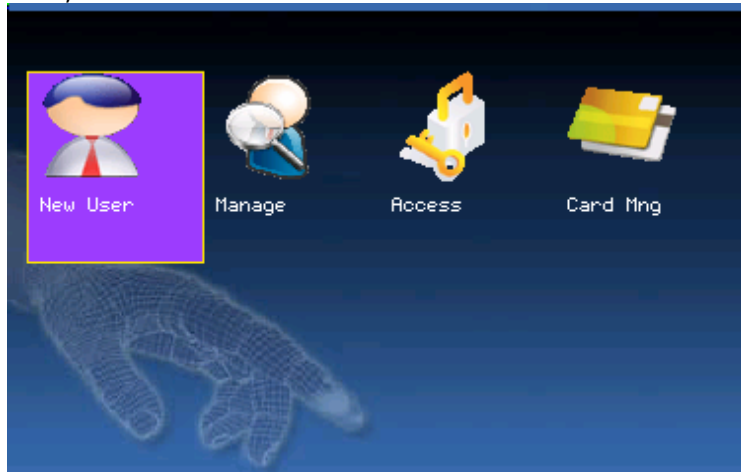
Users have unrestricted access to the F18 menu settings (i.e. Add/Edit/Delete users). For this reason, we advise enrolling an "administrator" after initial installation to help ensure safeguarding both the F18(s) and the customer door entrance(s).

From within the New User Menu, scroll with the ▲/▼ keys until the cursor is in the **Purview** field.



Delete Users

Start at the User Menu;



Scroll with the / keys and highlight **Manage**. Then press the **OK** key to open the User Manage screen;

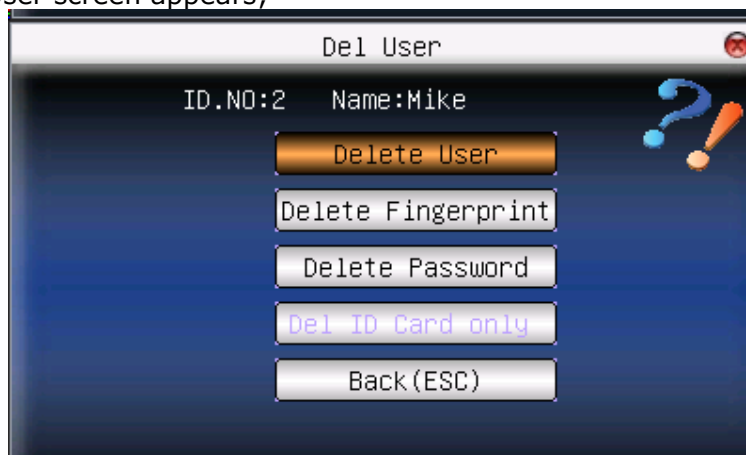
ID.NO	Name	FP	PWD	Card
1	Zeo	1	🔑	
2	Mike	1	🔑	
3	Sue	1	🔑	

Func: M/OK

Select the user you'd like to delete by scrolling with the ▲/▼ keys. Then press the **Menu** key so the drop-down menu appears;



Use the ▲/▼ scroll keys and highlight **"Del User"**. Then press the **OK** key to select. The following Delete User screen appears;



You can delete either the user, fingerprint, password or the ID card.

Scroll with the ▲/▼ keys to highlight your selection. Then press the **OK** key to delete your

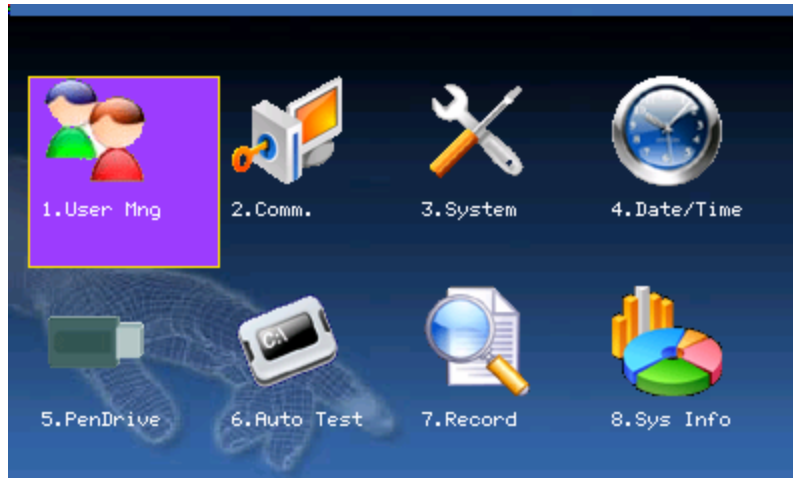
selection. The F18 will prompt you "**OKDel**"? Press the **OK** again to confirm deletion.

Set Communications Options:

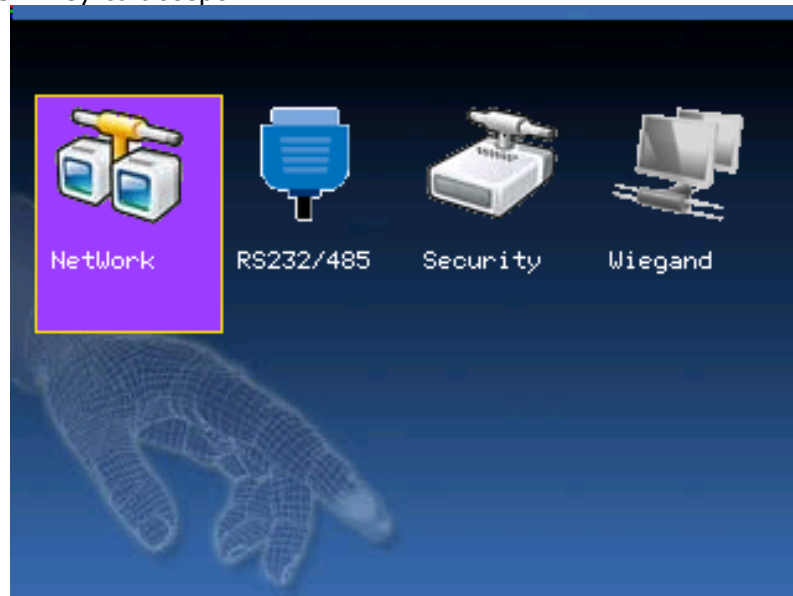
The F18 can communicate via the Network (Ethernet), RS/232 or RS485.

Network (Ethernet)

Press the **Menu** key to open the Main menu;



From the Main Menu, highlight and select **Comm.** to configure Communication Settings. Then press the **OK** Key to accept



From within the Comm Menu, scroll with the ◀/▶ keys until **Network** is highlighted. Press the **OK** key to accept.

Notice the following "**Network**" settings are available



Machine IP address:

Default IP is 192.168.1.239. You can modify it. But do NOT use an IP address already being used by another network device.

Subnet mask:

Default mask 255.255.255.0. You can modify it.

Gateway address:

Default gateway address is 0.0.0.0. You can modify it.

Network speed:

Note 3 Options (Automatic, 10M and 100M)

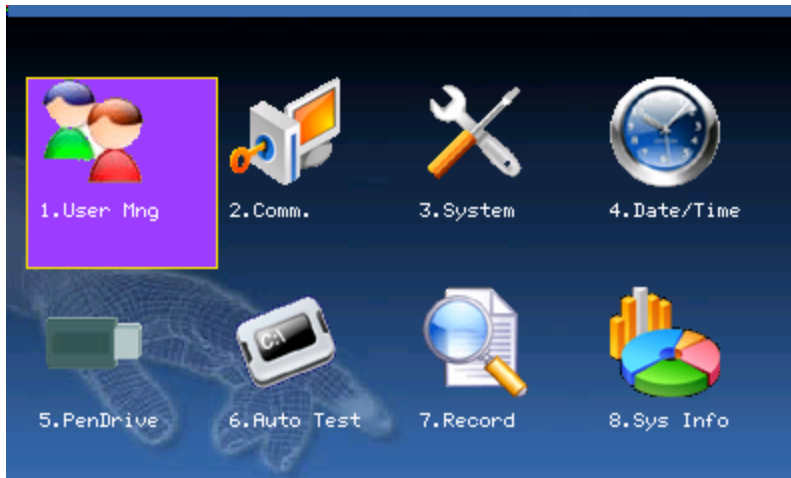
Scroll with the ▲/▼ keys to place the cursor in the desired field. Enter your preferred network communication settings.

After making changes, either press the **OK** key, or highlight the **OK (M/<-)** button and then press the **OK** Key.

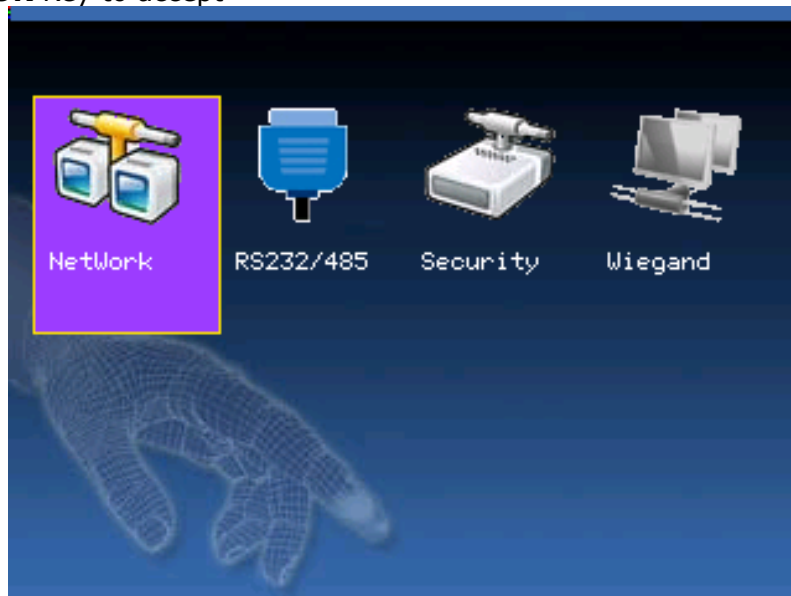
After selecting "**OK**", you'll be prompted "**Change Saved Successfully! OK**"; Press **OK** to continue. The screen will change to the previous menu. Press the **ESC** key to continue moving backward in the menu system.

RS232/485

Press the **Menu** key to open the Main menu

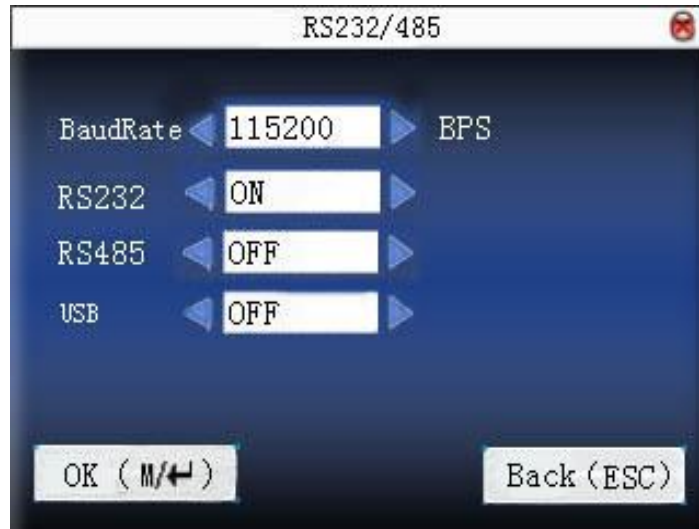


From the Main Menu, highlight and select **Comm.** to configure Communication Settings. Then press the **OK** Key to accept



From within the Comm Menu, scroll with the / keys until **RS232/485** is highlighted. Press the **OK** key to accept.

Notice the following "**RS232/485**" settings are available



Baud rate: Use the / to change pre-set values.

RS232: If using RS232 communication, select "On".

RS485: If using RS485 communication, select "On".

Scroll with the ▲/▼ keys to place the cursor in the desired field.

Use the scroll keys ◀/▶ keys to change between pre-defined values.

After making changes, either press the **OK** key, or highlight the **OK (M/)** button and then press the OK Key.

After selecting "OK", you'll be prompted "**Change Saved Successfully! OK**";

Press **OK** to continue, and the screen will change to the previous menu.

Press the **ESC** key to return to the previous menu.