

### 2.1.4 Admin FP + Card

For the protection of individual's fingerprints from possible access by others and in obligation of privacy laws in several countries, the Fingerprint + Card registration is provided. The fingerprint is never stored in the database of the device or the host PC. Instead it is stored in the identity card itself issued to the individual. Whenever the individual scans his fingerprint he should scan his card also and the device verifies his fingerprint against that stored in the card.

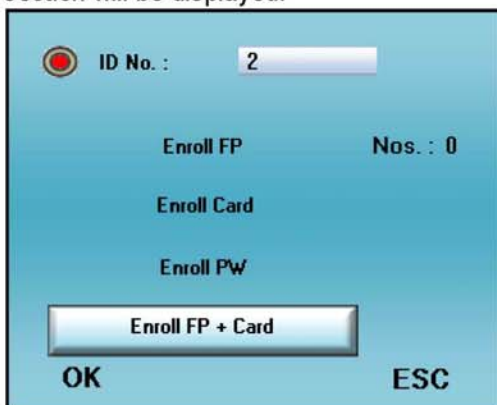
1. To register Administrator's FP + Card, scan the Admin Card provided with the product package and enter the main page. Select **User** icon and press **OK**.



2. On the next page, using key **▶** select **Admin** icon and press **OK**.



3. Enter your Admin ID number. Next, using key **▼** select **Enroll FP + Card** and press **OK**. If you enter an already registered ID number an error message as shown at the end of this section will be displayed.



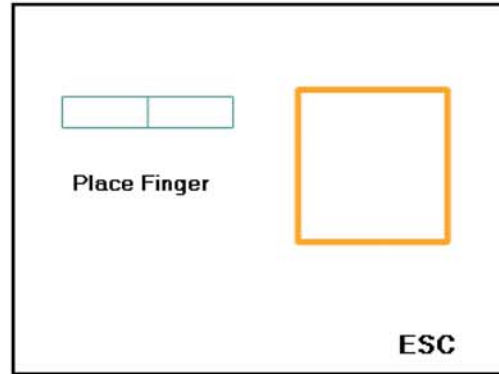
4. **Place Card** instruction will appear.



6. Take a blank user card provided with the product package and scan the card.



7. Fingerprint scan page will open.



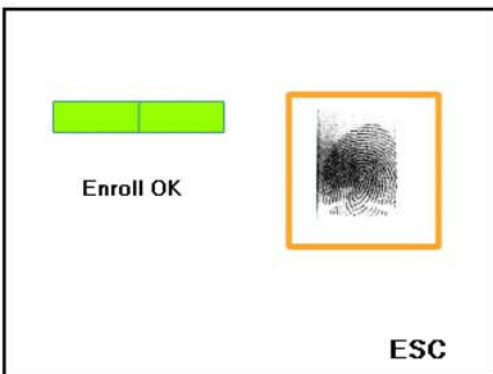
8. Place user to place his/her finger on the fingerprint sensor.



9. Scan start will be indicated by a green progress bar.



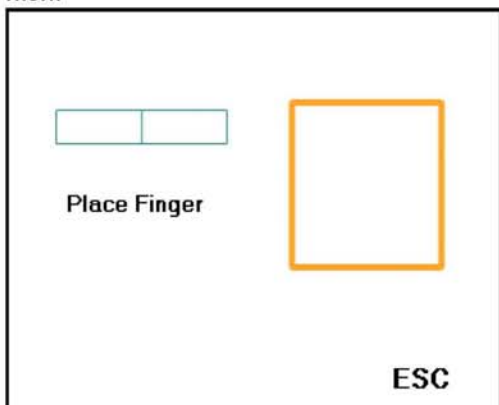
10. Scanning complete.



11. Red progress bar will appear If your fingerprint has already been registered. Try a different finger or delete the earlier fingerprint. To delete you should know the ID under which you had earlier registered it. Then you can delete it at **Edit** page and retry.



12. You can register one more fingerprint if you wish.



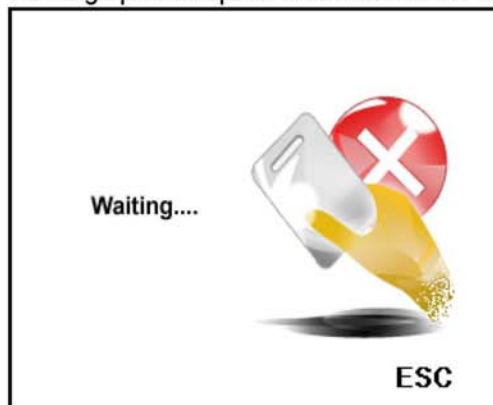
13. Place card message will appear.



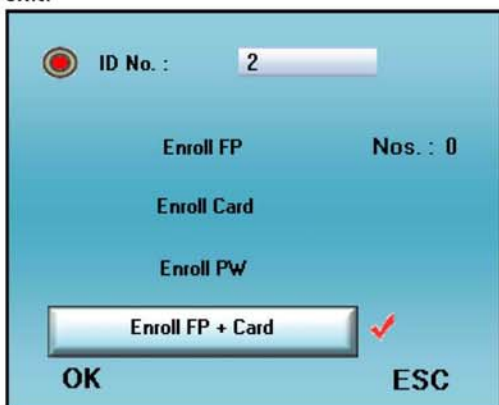
14. Scan the same card again.



15. Fingerprint template is stored into the card.



16. On successful registration, a 'Right' mark will appear next to **Enroll FP + Card** button. Press **ESC** exit.



**Error message if ID number was already taken/ registered:**

Error Enroll No.



**2.1.5 Admin Verification**

**FINGERPRINT VERIFICATION**

To verify your fingerprint registration. Place your finger on the sensor.



If the verification is successful, the Main page will open. If not, error message will be displayed as shown at the end of this section.



**CARD VERIFICATION**

To verify your card registration, scan your card.



If the verification is successful, the Main page will open. If not, error message will be displayed as shown at the end of this section.



### PASSWORD VERIFICATION

To verify your password registration, enter your ID number.



If the verification is successful, the Main page will open. If not, error message will be displayed as shown at the end of this section.



### FP + CARD VERIFICATION

To verify your Fingerprint + card, scan your FP + card.



If the verification is successful, the Main page will open. If not, error message will be displayed as shown at the end of this section.



Place your finger.



If the verification is successful, the Main page will open. If not, error message will be displayed as shown at the end of this section.



**Error message when verification fails:**



## 2.2 User Registration

This section describes steps to register:

1. User's ID and Fingerprint
2. User's Card and
3. User's password
4. User's Fingerprint + Card and
5. Verification of the above.


2.2.1 User ID and FP

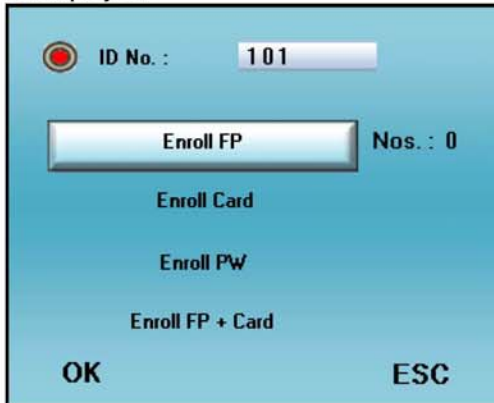
1. To register user's ID and fingerprint, scan your Admin Card and enter the main page. Select **User** icon and press **OK**.



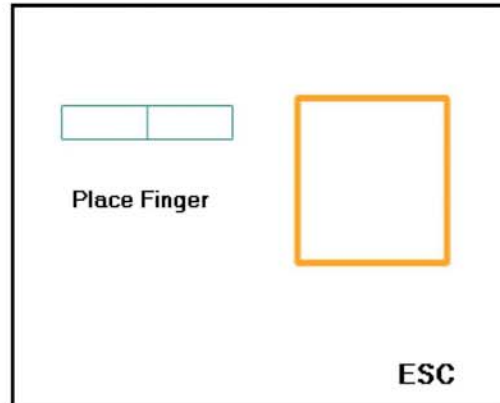
2. On the next page, select **User** icon again and press **OK**.



3. Enter User ID number. Next using key  select **Enroll FP** and then press **OK**. If an already registered ID number is entered an error message, shown at the end of this section, will be displayed.



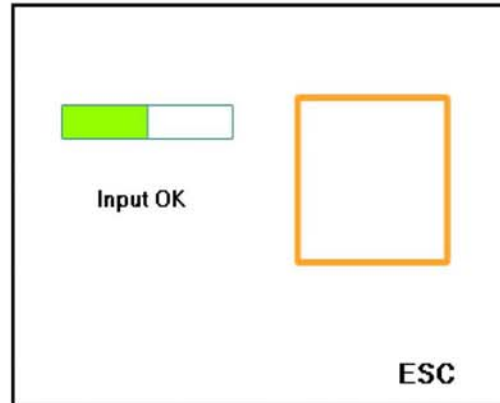
4. Fingerprint scan page will open.



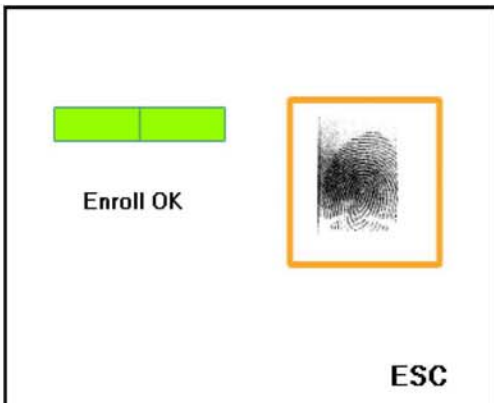
5. Place user's finger on the fingerprint sensor.



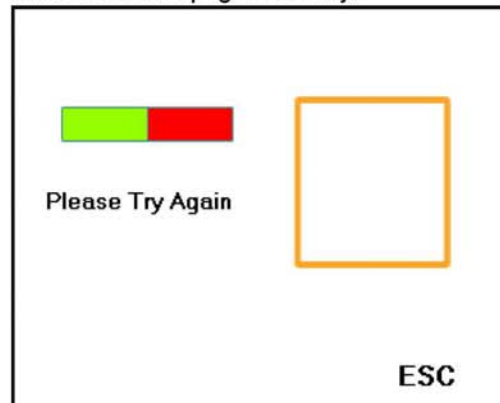
8. Scan will start indicated by a green progress bar.



9. Scanning complete.



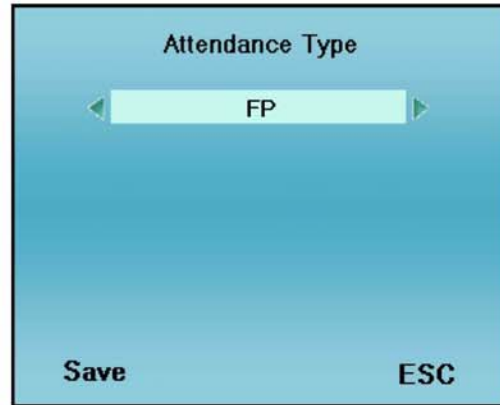
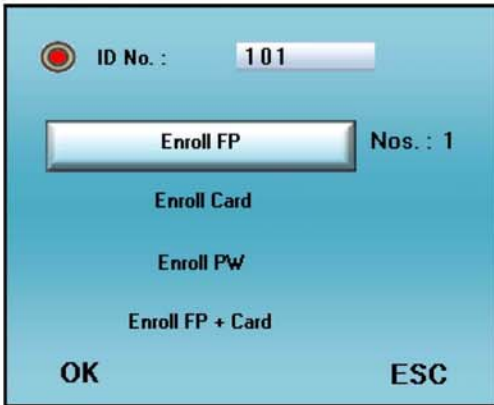
10. Red progress bar will appear if the fingerprint has already been registered. Try a different finger or delete the earlier fingerprint. To delete you should know the ID under which it was earlier registered. You can then delete it at **Edit** page and retry.





11. On successful registration the registration page will appear showing number 1 next to **Enroll FP** button. To register your other fingers repeat the steps from number 4 till 10. To register card for the same ID number follow from step 3 onward in the next section. Alternately you may press **ESC** to exit now and register the card later at your convenience by choosing another ID number.

12. Using keys ◀ ▶ select the type of attendance as **FP** if you want to access only by fingerprint. Press **Any** if you want to use any other option also.



Error message if ID number was already taken/registered:

Error Enroll No.



2.2.2 User Card

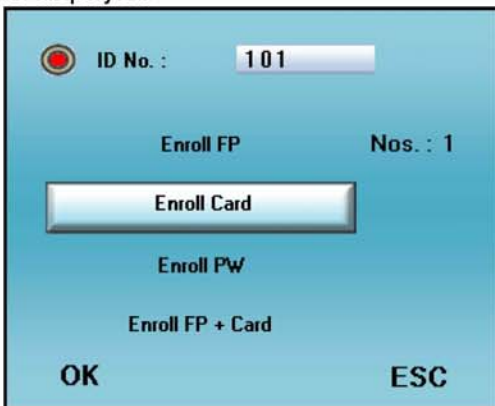
1. To register User's Card, scan your Admin Card and enter the main page. Select **User** icon and press **OK**.



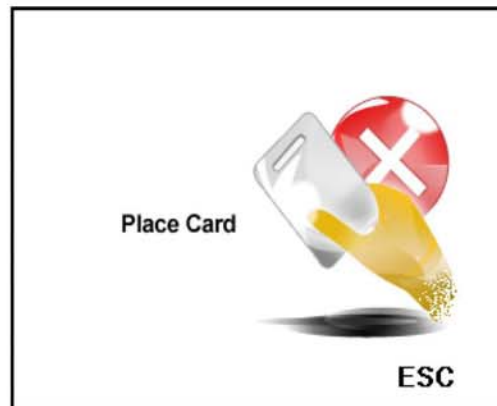
2. On the next page, select **User** icon again and press **OK**.



3. Enter user ID number. Next, using key select **Enroll Card** and press **OK**. If an already registered ID number is entered an error message, shown at the end of this section, will be displayed.



4. **Place Card** instruction will appear.



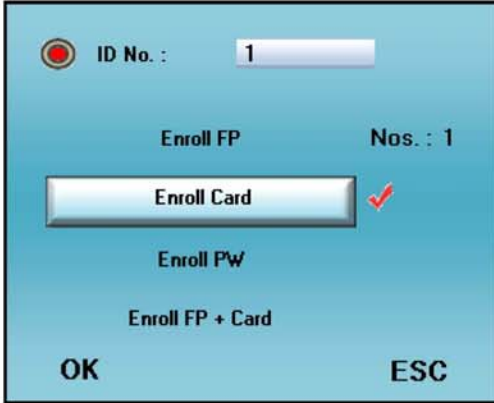
5. Take a blank user card provided with the product package and scan the card.



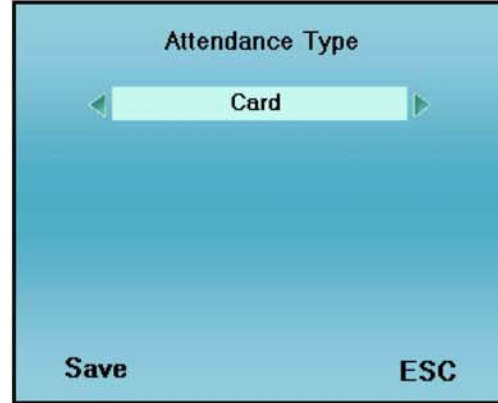
6. Card number and a 'Right' mark will appear.



7. Then a 'Right' mark will appear next to **Enroll Card** button indicating successful registration. If you want to register Password proceed from step 3 of the next section. Alternately you can quit now by pressing **ESC** and register it later with a different ID number.



8. Using keys ◀ ▶ select the type of attendance as **Card** if you want to access only by card. Press **Any** if you want to use any other option also.



Error message if ID number was already taken/registered:

Error Enroll No.



**2.2.3 User Password**

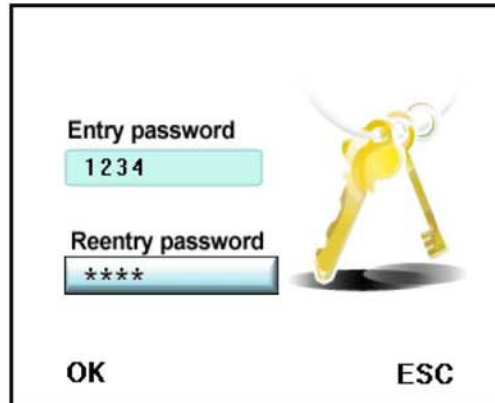
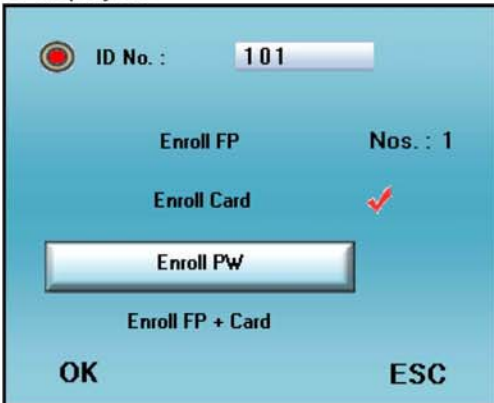
1. To set user's Password, scan your Admin Card and enter the main page. Select **User** icon and press **OK**.

2. On the next page, select **User** icon and press **OK** again.

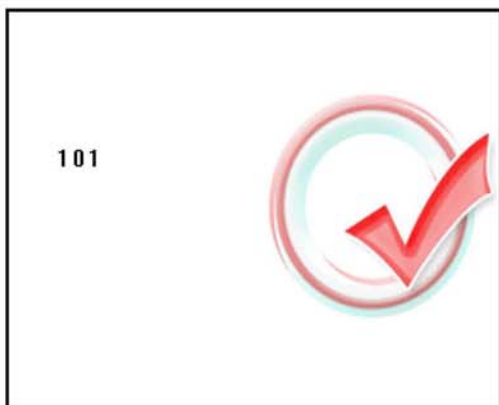


3. Enter User ID number. Next, using key select **Enroll PW** and press **OK**. If an already registered ID number is entered an error message, shown at the end of this section, will be displayed.

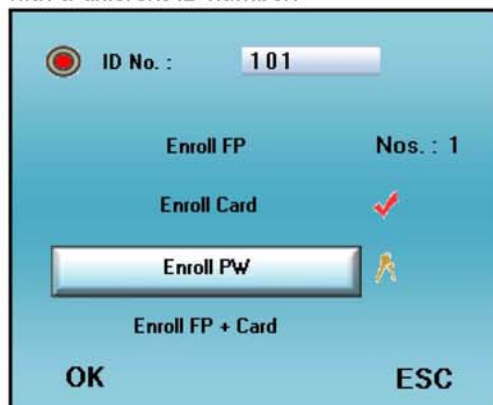
4. Enter password of your choice. Press **OK**. Re-enter password and press **OK** again.



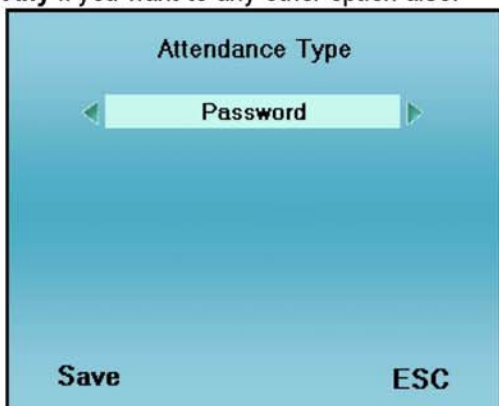
5. First, successful registering of ID will be confirmed by the appearance of a 'Right' mark.



6. Next, successful registering of password will be confirmed by the appearance of key bunch icon next to **Enroll PW** button. If you want to register **Enroll FP + Card**, enter a different ID number and then proceed from step 3 of the next section. Alternately you can quit now by pressing **ESC** and register it later as well with a different ID number.



7. Using keys ◀ ▶ select the type of attendance as **Password** if you want access by only password. Press **Any** if you want to any other option also.



**Error message if ID number was already taken/ registered:**

Error Enroll No.



**2.2.4 User FP + Card**

For the protection of individual's fingerprints from possible access by others and in obligation of privacy laws in several countries, the Fingerprint + Card registration is provided. In this system of registration the fingerprint is never stored in the database of the reader or the host PC. Instead it is stored in the identity card itself and issued to the individual. Whenever the individual scans his fingerprint he should scan his card also and the reader verifies his fingerprint against that stored in the card to authenticate his identity.

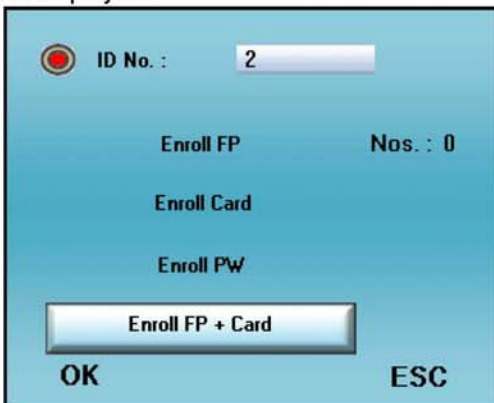
1. To register User's FP + Card, scan your Admin Card and enter the main page. Select **User** icon and press **OK**.



2. On the next page, select **User** icon and press **OK** again.



3. Enter user ID number. Next, using key **▼** select **Enroll FP + Card** and press **OK**. If an already registered ID number is entered an error message, shown at the end of this section, will be displayed.

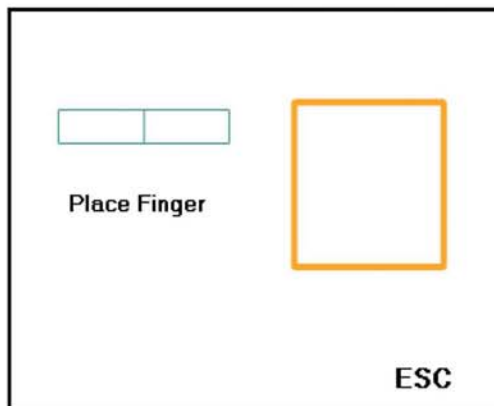


5. **Place Card** instruction will appear.



6. Take a blank user card provided with the product package and scan.

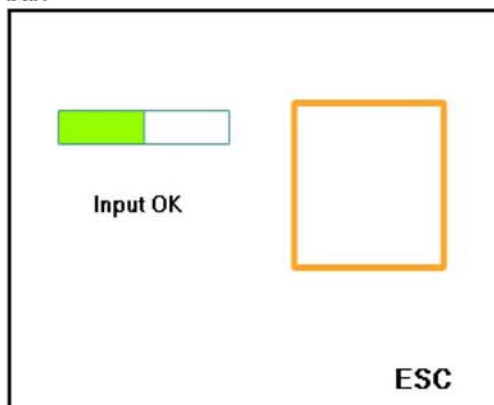
7. Fingerprint scan page will open.



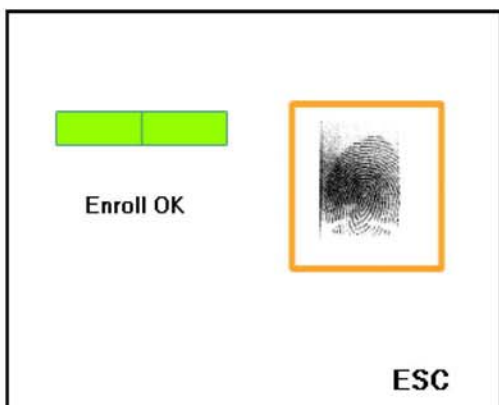
8. Tell user to place his/her finger on the fingerprint sensor.



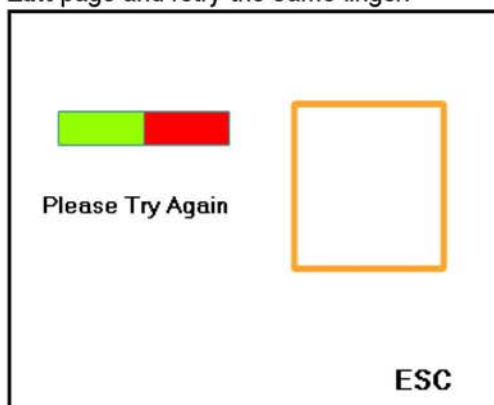
9. Scan start will be indicated by a green progress bar.



10. Scanning complete.

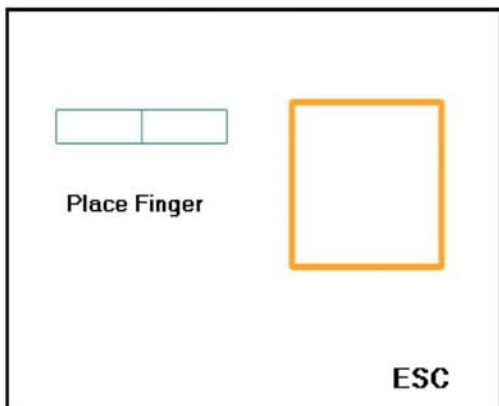


11. Red progress bar will appear if the fingerprint has already been registered. Try a different finger or delete the earlier fingerprint. To delete you should know the ID under which it was earlier registered. Then you can delete it at **Edit** page and retry the same finger.



12. Fingerprint scan page will open again so that one more fingerprint of the user can be registered if required. If not, press **ESC**.

13. Place card message will appear again.



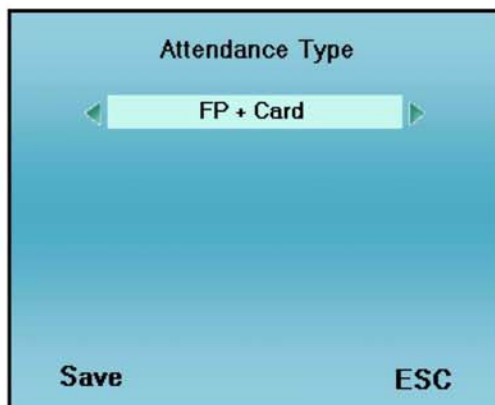
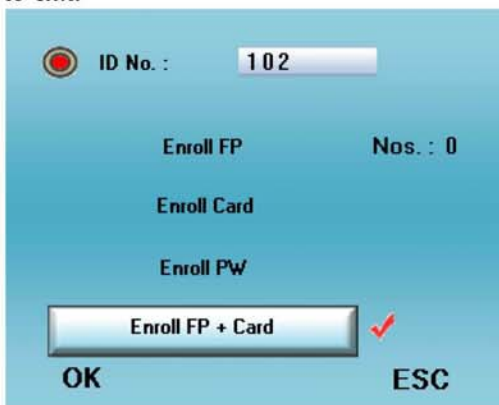
14. Scan the same card again.

15. Fingerprint template is being stored into the card.



16. On successful registration, a 'Right' mark will appear next to **Enroll FP + Card** button. Press **ESC** to exit.

17. Using keys ◀ ▶ select **Any** or **FP + Card** and then press **Save** to exit.



Error message if ID number was already taken (registered):



Error Enroll No.



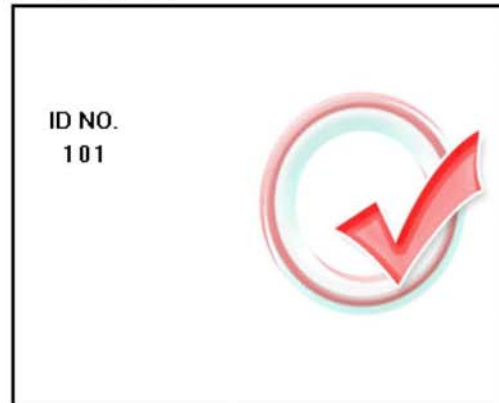
**2.2.5 User Verification**

**FINGERPRINT VERIFICATION**

To verify user's fingerprint registration. Instruct him/her to place finger on the sensor.



If the verification is successful, the ID number of the user will be displayed. If not, error message will be displayed as shown at the end of this section.

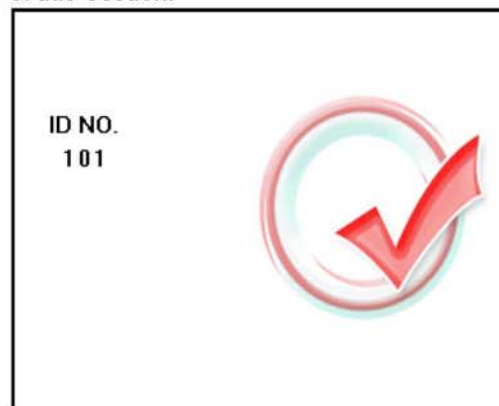


**CARD VERIFICATION**

To verify user's card registration, instruct him/her to scan card.



If the verification is successful, the ID number of the user will be displayed. If not, error message will be displayed as shown at the end of this section.

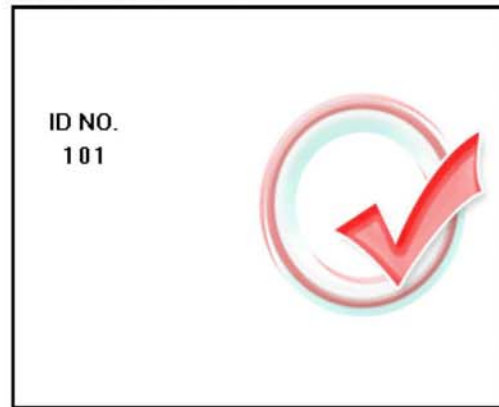


### PASSWORD VERIFICATION

To verify user's password registration, instruct him/her to enter ID number and press **OK**. Next instruct to enter password and press **OK** again.



If the verification is successful, the ID number of the user will be displayed. If not, error message will be displayed as shown at the end of this section.



### FP + CARD VERIFICATION

To verify user's Fingerprint + card, instruct user to scan his/her card.



Instruct user to place his/her finger on the sensor.

**Place finger** instruction will appear.



If the verification is successful, the ID number of the user will be displayed. If not, error message will be displayed as shown at the end of this section.



ID NO.  
102



**Error message when verification fails:**



## 2.3 Offline Operation

### 2.3.1 Data Management

#### 2.3.1.1 Delete saved data

1. To delete saved data, scan your Admin Card and enter the main page. Select **Data Management** icon and press **OK**.



2. Next using key **▼** select **Delete saved data** and then press **OK**.



3. Press **OK** to confirm.



This will delete all attendance records.



2.3.1.2 Delete all records

1. To delete all records, scan your Admin Card and enter the main page. Select **Data Management** icon and press **OK**.



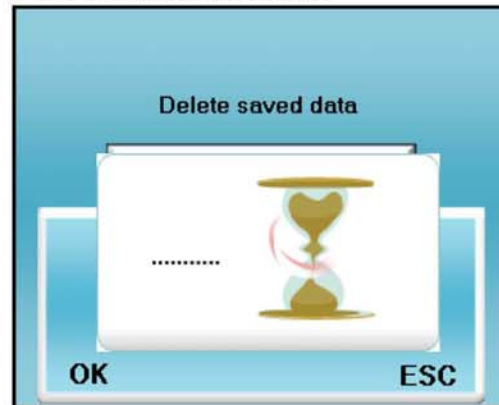
2. Next using key **▼** select **Delete all records** and then press **OK**.



3. Press **OK** to confirm.



4. This will delete all records.



2.3.1.3 Make all as "New"

to be constructed...

2.3.1.4 Recover data

1. To recover data, scan your Admin Card and enter the main page. Select **Data Management** icon and press **OK**.



2. Next using key **▼** select **Recover data** and then press **OK**.



3. Press **OK** to confirm.



4. This will restore all previous attendance records up to a maximum of 3000.



## 2.3.2 USB

In Offline mode of operation data uploading to and downloading from TR4080 can be done by connecting an external hard drive to the USB port of the device.

### 2.3.2.1 Download data

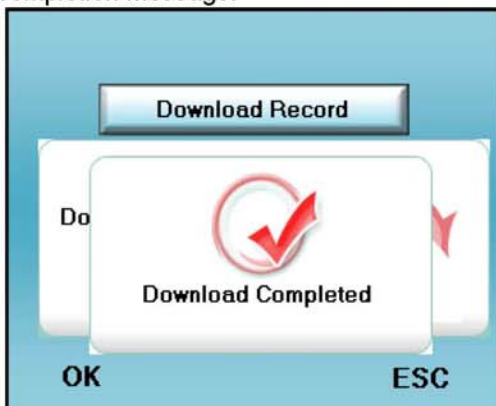
1. To download data into USB drive, insert your drive into the USB. It is on the left side of TR4080. Please see the note below. Scan your Admin Card and enter the main page. Select **USB** icon and press **OK**.

2. Next using key **▼** select **Delete saved data** and then press **OK**.



3. Press **OK** to confirm. Wait for download completion message.

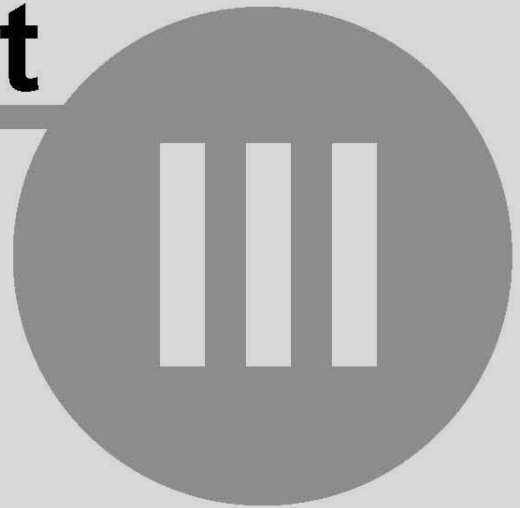
4. Remove your USB drive from TR4080 and connect it to a PC to view and save.





**Part**

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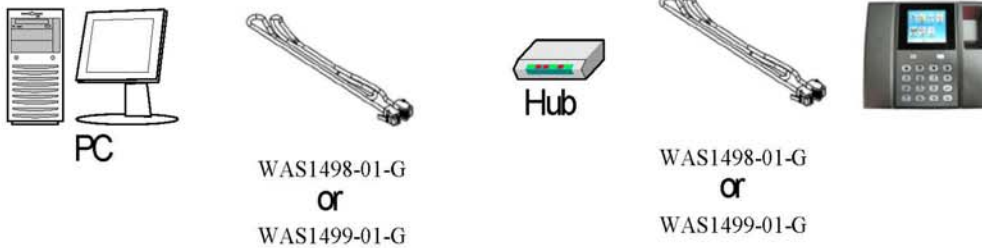


## 3 Appendix

Enter topic text here.

### 3.1 Wiring options for TR4080

#### 1. TCP/IP



- WAS1498-01-G □ WAS1499-01-G -- Purchase Separately or
- Purchase from your local Computer Store



#### 2. RS232

- WAS1499-01-G -- Purchase Separately or
- Purchase from your local Computer Store



#### a. RS232 → RS232

- WAS1455-G -- Included
- WAS1404-G (extended line) -- Purchase Separate cable when a longer one is needed.

#### b. USB → RS232

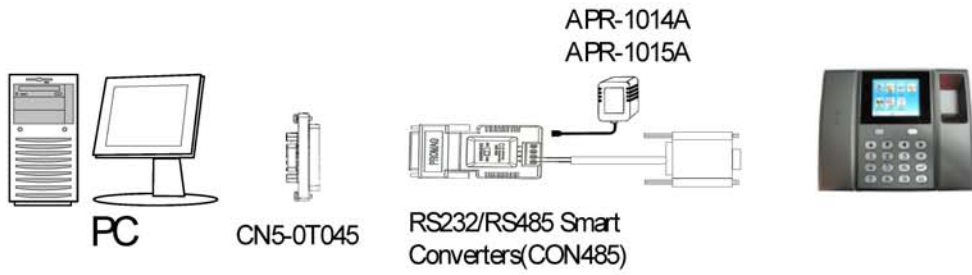
- WAS1487+USB232-00 Converter(One Package) -- Purchase Separately

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WAS1455-G – Included

Please also adjust the baud rate setup in TR4080 to match RS232 connection

### 3. RS485



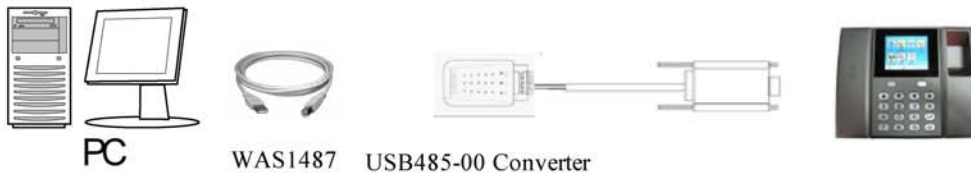
#### a. RS232 → RS485

- **CON-0T045 -- Purchase Separately**

APR-1014A □ APR-1015A -- Purchase Separately

RS232/RS485 Smart Converters (CON485) -- Purchase Separately

Please also adjust the baud rate set up in TR4080 to match RS485 connection



#### b. USB → RS485

- **WAS1487+USB485-00 Converter(One Package) -- Purchase Separately**

Please also apply the pin assignment and be noted that customers need to prepare the cable on their end.

