

Q2

*Time Attendance &
Access Control System*



USER MANUAL

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INTRODUCTION TO Q2 FINGERPRINT READER

The Q2 model of time attendance and door access control system comes with standard capacities of fingerprint templates (1500) and transaction logs (50,000), suitable for small and medium enterprise office environment. The Q2's fingerprint sensor is exceptionally fast and accurate, it can read every fingerprint in less than 2 seconds and provide correct verification results every time.

With its RFID card function, Q2 is attractive to corporations that have huge employee traffics or for those who require combination of biometrics and card system in attendance or door access system. The Q2 model is embedded with a built-in controller to ease door access installation without the need to source for external controller.

In addition, the availability of the standard communication protocol of TCP/IP and extra USB flash disk port, Q2 offers easy communication to smoothen the data transfer between the Q2 readers and the software.

The Q2 model is readily bundled with multilingual IPTime Software for efficient data storage and reader management.

Specifications	Model
	<p data-bbox="388 128 414 145">Q2</p> 
Surface finishing	ABS
Functions	Time Attendance System & Access Control
FP template capacity	1,500
Transaction log	50,000
Connections	TCP/IP, RS232, RS485, USB flash disk, 26-bits Wiegand output
Subnet mask & Gate way	Available
Card reader	RFID reader
Card capacity	65535 cards users
Sensor	Optical sensor with silicon coating
Software language available	English, Arabic, Chinese Simplified, Chinese Traditional, French, German, Indonesian, Malay, Russian, Farsi, Portuguese, Spanish, Thai and Vietnamese.

Complete Package of Q2 Model

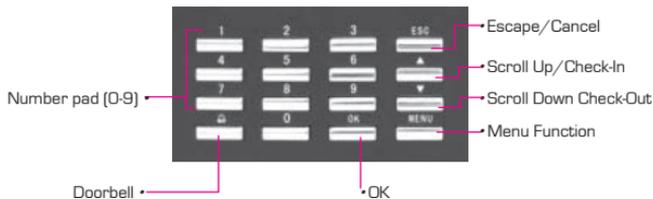
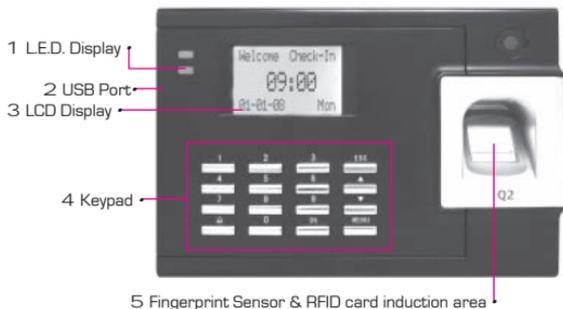
ITEM	Q2
Fingerprint reader	√
Screwdriver 	√
RFID card (5 pieces) 	√
C2 controller 	√
Power cable 	√
RS232 cable 	√
TCP/IP cable 	√

RS485 connector		√
RS485 wire		√
Bell wire		√
Alarm wire		√
USB extension		√

Materials provided with Q2 Model

<i>Q2 Model</i>	
Hardware User Manual	√
Software User Manual	√
Sample of enrollment form	√

Basic Features of Q2 Model



- L.E.D Display** - The L.E.D display has two lights.
 - 1. Green:** The reader is in standby mode or to indicate that user has been successfully verified.
 - 2. Blue:** To indicate that user verification has failed.
- LCD Screen** - Screen that displays instructions and status of the reader.
- USB Port** - To upload/download users information, password, fingerprint, and transaction logs via USB flash disk.
- Keypad** - Keys of 0-9, an OK button, an Escape/Cancel button, a Scroll up/Check-In button, a Scroll Down/Check-Out button, a doorbell button and a menu button.
- Fingerprint Sensor** - For user to place fingerprint for identification/verification.

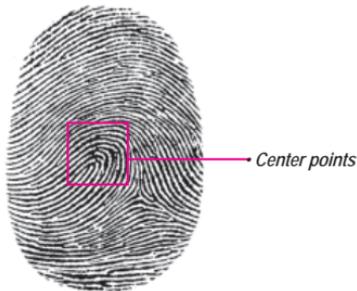
2 • USING THE Q2 FINGERPRINT READER

Q2 fingerprint reader provides 4 types of enrollment method:

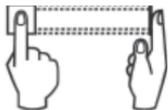
- **Fingerprint Enrollment**
User enrolls his fingerprint template into a reader and the template will be used for future verifications.
- **Password Enrollment**
For user who has difficulty to enroll his fingerprint due to poor fingerprint quality, he is recommended to use password. Password enrollment is also suitable for visitors and temporary workers.
- **Fingerprint and Password Enrollment**
Under this option, a user can enroll both fingerprint and password at the same time. The user can either use fingerprint or password to report attendance or to gain access.
- **Card Enrollment**
User can enroll with a RFID card, to report time attendance and to gain access.

USING THE FINGERPRINT READER

This chapter will guide on how to use the fingerprint reader effectively. To get a good reading every time, a fingerprint enrollment for the first time must be done properly.



What you should do



Place finger flat on the fingerprint sensor. Make sure the finger's midpoint is placed at the center of the fingerprint sensor.

What you should NOT do



UPRIGHT



ASKEW



OFF CENTER



PART

TIPS FOR BEST FINGERPRINT ENROLLMENT

There are 5 tips to get good fingerprint enrollment:

- *Use INDEX finger*
Index finger is smaller than thumb and it can be comfortably placed on the sensor. The use of thumb is not recommended because the center points might not be placed properly on the sensor, hence cannot be read by the sensor due to its larger size.
- *Make sure the finger is not wet, too dry, injured or dirty*
The finger needs to be slightly moist to enable the sensor to read the minutiae points on the fingerprint.
- *Place the center points of your finger at the center of the sensor*
The center points of a finger is an area where there is a swirl and the center points must be properly placed on the sensor during enrollment.
- *Don't press hard at the sensor, just place your finger on the sensor*
The sensor is reading minutiae points of your finger and placing a finger properly on the sensor will prompt the sensor to read those points. Pressing your finger hard on the sensor is not necessary.
- *Don't do enrollment under bright light or direct sunlight*
It is important to note that bright light or sunlight could interfere with the reading of the sensor. Avoid placing the reader under direct sunlight or bright light to avoid difficulty in enrollment and future verification.

INITIAL SET UP OF THE Q2 FINGERPRINT READER

Date/Time Adjustment

When first installing the Q2 fingerprint reader, it is important to set the correct date and time.

Follow the steps below to access the Date/Time adjustment menu:

When you see this / *Do this*

Welcome	Check-In
08:24	
07-01-08	Mon

 Press once

User Manage
▶ Options
Sys Info

 Press once

 Press once

▶ System Opt
Power Mng
Comm Opt

 Press once

▶ Date Time
Language ENG
Fmt DD-MM-YY

 Press once

YY-MM-DD	24H
2008-1-17	
08:24:25	
ESC	OK

 Press once

Use the keypad to key in the year, month and date. Scroll down more to change the day, hour, minute and seconds

When you see this / Do this

Welcome Check-In
08:24
07-01-08 Mon

 Press once

▶ User Manage
Options
Sys Info

 Press once

Enroll User
▶ Enroll Admin
Delete

 Press once

 Press once

▶ Enroll FP
Enroll Pwd
FP & Pwd

 Press once

Admin Accredited
Supervisor
ESC OK

 Press once to confirm or

 Press once to cancel operation

Enroll FP
New Enroll
ESC OK

 Press once to confirm or

 Press once to cancel operation

New Enroll
User ID 00001
ESC OK

Press 1 on the keypad for ID 00001

 Press once to confirm or

 Press once to cancel operation

When you see this / Do this

New Enroll
00001
Place Finger...
ESC/Exit

Place the center point of fingerprint properly on the sensor. Place fingerprint 3 times during enrollment.



Read [page 9](#) for tips on fingerprint scanning technique.

This shows templates has been successfully captured; and "-0" means that the first fingerprint template is recorded.

New Enroll
00001-0
ESC OK [Save]

 Press once to confirm or

 Press once to cancel operation

New Enroll
Continue?
ESC OK [Save]

 Press once to add backup fingerprint for enrolled user ID, or

 Press once to add new user

Backup Enroll
00002-1
Place Finger...
ESC/Exit

Place the center of your fingerprint properly at the sensor. Place the fingerprint 3 times in order for the reader to capture the fingerprint templates.

Backup Enroll
User ID 00001-1
ESC OK [Save]

This shows templates has been successfully captured; the "-1" means template of the second finger is captured good.

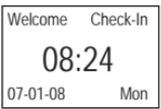
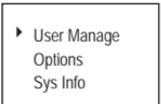
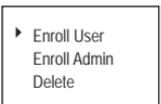
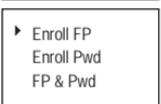
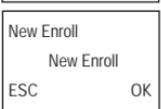
 Press once to confirm or

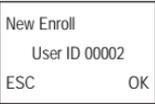
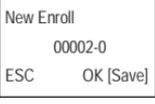
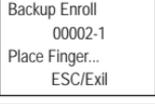
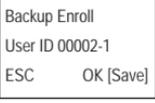
 Press once to cancel operation

Congratulations! A supervisor has been enrolled in the system. As a supervisor, he can manage the G2 fingerprint reader by adding users, deleting users and various other functions through the keypad.

Enrollment of Normal User

A normal user is only allowed to use reader for identity verification, and he does not have any other authorities to access the system. To add a normal user, follow the steps below:

When you see this	Do this
	 Press once
	 Press once
	 Press once
	 Press once
	 Press once to confirm or  Press once to cancel operation

When you see this	Do this
	Press number 2 on the keypad for ID 00002  Press once to confirm or  Press once to cancel operation
	Place the center point of your fingerprint properly at the sensor. You need to place your fingerprint 3 times for your reader to capture your fingerprint template.
	This shows template has been successfully captured; the "-0" means template of first finger is captured good.  Press once to confirm or  Press once to cancel operation
	 Press once to add backup fingerprint for enrolled user ID. or  Press once to add new user.
	Place center point of fingerprint properly at the sensor. Place the fingerprint 3 times for your reader to capture your fingerprint template.
	This shows template has been successfully captured; the "-1" means template of first finger is captured good.  Press once to confirm  Press once to go back

To enroll more users, repeat the same steps above.

Fingerprint Verification

G2 reader supports 2 types of fingerprint verification method. User can choose either method to verify his fingerprint at the reader.

2 types of fingerprint verification methods are:

- 1 to Many (1:N) fingerprint matching
- 1 to 1 (1:1) fingerprint matching

1 to Many (1:N) Fingerprint Matching

When you see this	Do this						
<table border="1"><tr><td>Welcome</td><td>Check-In</td></tr><tr><td colspan="2">08:24</td></tr><tr><td>07-01-08</td><td>Mon</td></tr></table>	Welcome	Check-In	08:24		07-01-08	Mon	Place the enrolled finger properly on the fingerprint sensor.
Welcome	Check-In						
08:24							
07-01-08	Mon						
<table border="1"><tr><td>FP Verify</td></tr><tr><td>Remove finger</td></tr></table>	FP Verify	Remove finger	Wait a second before removing the finger from the fingerprint sensor.				
FP Verify							
Remove finger							
<table border="1"><tr><td>FP Verify</td></tr><tr><td>User ID 00001</td></tr><tr><td>Verified</td></tr></table>	FP Verify	User ID 00001	Verified	G2 reader verifies that the user ID is 00001.			
FP Verify							
User ID 00001							
Verified							
<table border="1"><tr><td>FP Verify</td></tr><tr><td>Please Try Agn.</td></tr></table>	FP Verify	Please Try Agn.	If a finger failed to be verified by the G2 reader, it will prompt the user to try again.				
FP Verify							
Please Try Agn.							

1 to 1 (1:1) Fingerprint Matching

When you see this	Do this						
<table border="1"><tr><td>Welcome</td><td>Check-In</td></tr><tr><td colspan="2">08:24</td></tr><tr><td>07-01-08</td><td>Mon</td></tr></table>	Welcome	Check-In	08:24		07-01-08	Mon	Key in the user ID as defined when enrolling a finger on the G2 fingerprint reader. For example 1 for 00001.
Welcome	Check-In						
08:24							
07-01-08	Mon						
<table border="1"><tr><td>1:1 FP Verify</td></tr><tr><td>User ID 00001</td></tr><tr><td>ESC</td><td>OK[Pwd]</td></tr></table>	1:1 FP Verify	User ID 00001	ESC	OK[Pwd]	Place the enrolled finger properly on the fingerprint sensor.		
1:1 FP Verify							
User ID 00001							
ESC	OK[Pwd]						
<table border="1"><tr><td>1:1 FP Verify</td></tr><tr><td>User ID 00001</td></tr><tr><td>Verified</td></tr></table>	1:1 FP Verify	User ID 00001	Verified	The G2 fingerprint sensor verifies that the user ID is 00001.			
1:1 FP Verify							
User ID 00001							
Verified							
<table border="1"><tr><td>1:1 FP Verify</td></tr><tr><td>User ID 00001</td></tr><tr><td>Please Try Agn.</td></tr></table>	1:1 FP Verify	User ID 00001	Please Try Agn.	If a finger failed to be verified by the G2 reader, it will prompt the user to try again.			
1:1 FP Verify							
User ID 00001							
Please Try Agn.							

Password Enrollment

For user who cannot enroll his fingerprint, he can choose to use passwords. Follow the steps below:

When you see this / Do this

Welcome Check-In 08:24 07-01-08 Mon	 Press once
▶ User Manage Options Sys Info	 Press once
▶ Enroll User Enroll Admin Delete	 Press once
▶ Enroll FP Enroll Pwd FP & Pwd	 Press once  Press once
New Enroll New Enroll ESC OK	 Press once to confirm or  Press once to cancel operation

When you see this / Do this

New Enroll User ID 00003 ESC OK	Press number 3 on the keypad for ID number 00003  Press once to confirm or  Press once to cancel operation
New Enroll Input Pwd**** ESC OK	Key in the password Maximum 5 characters in length  Press once to confirm
New Enroll Input Pwd**** Pwd Affirm***** ESC OK	Retype the password for confirmation and  Press once to confirm
New Enroll 00003-P ESC OK [Save]	The "P" shown means that password has been successfully recorded.  Press once to confirm or  Press once to cancel operation

Password Verification

User with password enrollment can always use password to report attendance or gain access from the readers.

Deleting Users

The system also allows deletion of user from the system. This is important as employees come and go. Therefore, for those who had left the company, their fingerprint templates or records must be deleted from the system to avoid any misuse of the system. Only an administrator or a supervisor has the rights to delete user. Follow the steps below to delete any user:

When you see this | Do this

Welcome Check-In
08:24
07-01-08 Mon

Key in the user ID by using keypad

1:1 FP Match
User ID 00003
ESC OK

Press OK to confirm that it is the correct ID.

 Press once to confirm

Pwd Affirm
User ID 00003
ESC OK[PWD]

Key in the matching password by using keypads

 Press once to confirm

Pwd Affirm
User ID 00003
Verified!

The Q2 fingerprint reader verifies that user ID user ID is 00003

When you see this | Do this

Welcome Check-In
08:24
07-01-08 Mon

 Press once

► User Manage
Options
Sys Info

 Press once

Enroll User
Enroll Admin
► Delete

 Press 2 times

 Press once

Delete
User ID 00001
ESC OK

 Key in user ID
Press once

When you see this / *Do this*

Del Fingerprint
1-0
ESC OK

- OK** Press once to confirm or
- ESC** Press once to cancel operation

Del User
1
ESC OK

- OK** Press once to confirm or
- ESC** Press once to cancel operation

Del User
Delete
ESC OK

- OK** Press once to confirm or
- ESC** Press once to cancel operation

User will be deleted from the reader following the above steps.

Note

Remember to key in the correct User ID for deletion.

3 • RFID CARD FUNCTION ON Q2 MODEL

HARDWARE

Enrollment of RFID Card In Q2 Model

Q2 supports enrollment of RFID card. User can use RFID card only to report his attendance in the reader. The reader provides 3 extra enrollment methods, which include:

- RFID card only
- RFID card + fingerprint
- RFID card + password

Each RFID card has a unique Card ID. During enrollment, this Card ID will be read from an RFID card, and it will be matched with a User ID supported by the reader.

RFID card only

Each RFID card user must register his RFID card to Q2, regardless of whether he is using RFID card only or he combines the Card ID with fingerprint, or with password.

RFID card users who do not enroll their fingerprints or password into a reader will only be able to use RFID card to report for time attendance when the reader is configured to read card only.

To configure the reader to read RFID card ONLY follow the steps below:

When you see this / Do this

Welcome Check-In 08:24 07-01-08 Mon	 Press once
---	--

Menu ▶ User Manage Options Sys Info	 Press once
--	--

User Manage ▶ Enroll User Enroll Admin Delete	 Press once
--	--

Enroll User Enroll Pwd FP & Pwd ▶ Reg RFID	 Press 3 times  Press once
---	---

Reg RFID New Enroll ESC OK	 Press once
----------------------------------	--

When you see this / Do this

New Enroll
User ID 00001
ESC OK

Keyin ID
 Press once to confirm

New Enroll
Show the card
User ID 00001
ESC OK

Place card at the induction area [the keypad area]. The card ID will be read by the reader.

New Enroll
CARD:9067337
User ID 00001
ESC OK

The card ID and the user ID will be shown on the display.
 Press once to confirm or
 Press once to cancel operation

New Enroll
00001-C
ESC OK

 Press once to confirm

New Enroll
Continue?
ESC OK

 Press 5 times to return to the main menu

RFID Card + Fingerprint

Users must register their RFID cards to the reader before they can use the card and fingerprint to report for time attendance.

Before a reader could read any RFID card, it must be configured correctly to accept RFID card information. Follow the steps below to do reader configuration.

When you see this / Do this

Welcome Check-In
08:24
07-01-08 Mon

 Press once

Menu
User Manage
▶ Options
Sys Info

 Press once

 Press once

Options
Comm Opt
Log Opt
▶ Access Options

 Press 4 times

 Press once

Enroll User
Enroll Pwd
FP & Pwd
▶ Reg RFID

 Press 10 times

 Press once

Group VerType
▶ 1 FP/PW/RF
2 FP/PW/RF
3 FP/PW/RF

 Press once

 Press to choose

 FP/PW/RF

 Press once

 Press once

Group VerType
Save?
ESC OK(Save)

 Press once

 Press 3 times to return to the main menu

User needs to enroll his fingerprint to enable him to use the card with fingerprint

When you see this / *Do this*

Welcome Check-In
08:24
07-01-08 Mon

 Press once

Menu ▲
▶ User Manage
Options
Sys Info

 Press once

User Manage ▲
▶ Enroll User
Enroll Admin
Delete

 Press once

Enroll User ▲
▶ Enroll FP
Enroll Pwd
FP & Pwd

 Press once

Enroll FP
New Enroll
ESC OK

 Press once

Backup Enroll
User ID 00001
ESC OK

Key in user ID that has been enrolled with RFID card

 Press once to confirm

Backup Enroll
00001-0
Place Finger
ESC OK

Place center of the fingerprint properly at the sensor. You need to place the fingerprint 3 times for the reader to capture the fingerprint template.

When you see this / *Do this*

Backup Enroll
User ID 00001
ESC OK(Save)





Backup Enroll
Continue
ESC OK



RFID Card + Password

User must register his RFID cards with the reader before he can use the RFID card with password to report time attendance.

Configure the reader to request for a password.

When you see this / *Do this*

Welcome Check-In
08:24
07-01-08 Mon

 Press once

Menu ▲
User Manage
▶ Options
Sys Info

 Press once

 Press once

Options ▼
Comm Opt
Log Opt
▶ Access Options

 Press 4 times

 Press once

When you see this / *Do this*

Access Options ▲ Duress Options Alarm CNT 0 ▶ Group VerType	 Press 10 times
	 Press once

Group VerType ▶ 1 FP/PW/RF 2 FP/PW/RF 3 FP/PW/RF	 Press once
	 Press to choose
	FP/PW/RF
	 Press once
	 Press once

Group VerType Save? ESC OK(Save)	 Press once
	 Press 3 times to return to the main men

User needs to enroll his password to enable him to use the card with password.

When you see this / *Do this*

Welcome Check-In 08:24 07-01-08 Mon	 Press once
---	--

Menu ▲ ▶ User Manage Options Sys Info	 Press once
--	--

User Manage ▲ ▶ Enroll User Enroll Admin Delete	 Press once
--	--

When you see this / *Do this*

Enroll User ▲ Enroll FP ▶ Enroll Pwd FP & Pwd	 Press once
	Press once

Enroll FP New Enroll ESC OK	 Press once
-----------------------------------	--

Backup Enroll Input Pwd 00002 ESC OK	Key-in user ID enrolled with Rfid card
	 Press once

Backup Enroll Input Pwd xxxx ESC OK	Key-in password, maximum 5 numeric numbers
	 Press once

Backup Enroll Input Pwd xxxx Pwd Affirm xxxx	Re-enter password to confirm
--	------------------------------

Backup Enroll 00001-0 ESC OK(Save)	 Press once to confirm or
	 Press once to cancel operation

Backup Enroll Continue? ESC OK	 Press 5 times to return to main menu
--------------------------------------	--

Verification With RFID Card In Q2 Model

RFID card user can do verifications at Q2 model by using the following combinations:

- RFID card only
- RFID card with fingerprint
- RFID card with password

RFID Card Only

To enable this operation, configure option "Card Only" in Advance Option to "Yes".

When you see this / Do this

Welcome Check-In
08:24
07-01-08 Mon

Place RFID card at the induction area.

Verify PIN Card
CARD : 9067337
User ID : 00001
Verified

The Card ID and the User ID will be prompted and you will hear "Thank You".

Verify PIN Card
No Enroll

If verification is failed, the screen will show "No Enroll" and you will hear "Invalid ID".

Card & Fingerprint

To enable this operation, configure option "Card Only" in Advance Option to "No".

When you see this / Do this

1:1 FP Match
CARD : 9067337
ESC OK (Pwd)

Place card at the induction area. Card ID will be displayed. Place finger on the scanner to capture the fingerprint.

1:1 FP Match
CARD : 9067337
User ID : 00001
Verified

User ID will be prompted and you will hear "Thank You"

1:1 FP Match
CARD : 9067337
Please try again

If verification is failed, you will hear "Please Try Again".

Card & Password

To enable this operation, configure option "Card Only" in Advance Option to "No".

<i>When you see this</i>	<i>Do this</i>
1:1 FP Match CARD : 9067387 ESC OK (Pwd)	Place card at the induction area.  Press once
1:1 FP Match CARD : 9067387 User ID : 00002 Input Pwd : xxxxx	User ID is displayed  Press once to confirm and enter your password
Pwd Affirm CARD : 9067387 User ID : 00002 Verified	You will hear "Thank You" if password is correctly entered.
Pwd Affirm CARD : 9067387 User ID : 00002 Error Pwd	You will hear "Incorrect password" if password is wrongly entered.

IPTIME SOFTWARE

Q2 model is using software with additional functions in Fingerprint Management.

The IPTIME software allows the RFID card number to be enrolled into Q2 model. The technique of saving and transferring of RFID card number is similar to those of fingerprint and password.

Fingerprint Management

The above diagram is showing the Fingerprint Management page with a new column known as card. This column stores and displays RFID card numbers that have been enrolled for the users. Only users that have enrolled with RFID cards will have information on the Card column in IPTIME software.

Please include "Fingerprint" and "Username + Privilege + Password" before an update process begins.

TYPES OF VERIFICATION METHOD

Q2 model supports four types of verification method, which include fingerprint, password, PIN (User ID) and RFID card. User can opt to use multi verification method to increase security level. However, the fingerprint template capacity for this model is limited to 1,500 and the RFID card is up to 65335. Any combinations of verification methods would reduce user capacity of the Q2 reader.

Please follow the steps below to configure the multi verification methods.

When you see this / Do this

Welcome Check-In
08:24
07-01-08 Mon

 Press once

Menu ▲
User Manage
▶ Options
Pen Drive Mng

 Press once

 Press once

Options ▼
Comm Opt
Log Opt
▶ Access Options

 Press once

 Press once

Access Options ▲
Duess Options
Alarm CNT 0
▶ Group VerType

 Press 10 times

 Press once

Group VerType
▶ 1 FP/PW/RF
2 FP/PW/RF
3 FP/PW/RF

 Press once

 Press to choose the multi verification method

 Press once

 Press once

Group VerType
Save ?
ESC OK(Save)

 Press once

 Press 3 times to

Q2 model supports the following combinations of verification.

<i>Type of verifications</i>	<i>Operations</i>
FP / PW / RF	Reader verifies users via fingerprint, password or RFID card.
FP	Reader verifies users via fingerprint only.
PIN	Reader verifies users via User ID only.
PW	Reader verifies users via password only.
RF	Reader verifies users via RFID card only.
FP / PW	Reader verifies users either via fingerprint or password.
FP / RF	Reader verifies users either via fingerprint or RFID card.
PW / RF	Reader verifies users either via password or RFID card.
PIN & FP	Reader verifies users via 1:1 fingerprint matching only.
FP & PW	Reader verifies users via fingerprint with password only.
FP & RF	Reader verifies users via fingerprint with RFID card only.
PW & RF	Reader verifies users via password with RFID card only.
FP & PW & RF	Reader verifies users via fingerprint + password + RFID card.
PIN & FP & PW	Reader verifies users via User ID + fingerprint + password.
FP & RF / PIN	Reader verifies users either via fingerprint + RFID card or 1:1 fingerprint matching.

There are 5 groups available that their verification combinations could be configured. Every user is assigned into a group and he shall follow the verification methods chosen for the group. Please make sure that users chosen for a particular group have been enrolled properly to enable them to get verified. Use Biomanagement software to configure and to assign users into a group. Please refer to IPTIME software manual for more details.

4 • ACCESS OPTIONS

BRIEF INTRODUCTION TO ACCESS OPTIONS

Access option function setting is the settings of user's accessibility to certain doors. It is known as Time Zone. A combination of time zones is known as Group Time Zone. There are a total of 50 time zones available in Q2 model. Below are some examples of Time Zone configurations and combinations of Time Zones.

Time zone	SUN	MON	TUE	WED	THU	FRI	SAT
1	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00

Table 1.1 Time Zone 1

Time Zone 1: Constant access time for a period of one week

Table 1.1 is showing the time zone 1 detailed schedule where users are only allowed access from 9am to 6pm from Monday to Sunday.

Time zone	SUN	MON	TUE	WED	THU	FRI	SAT
2	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00
3	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00	09:00-18:00

Table 1.2 Time Zones 2 & 3

Time Zone 2: Variation in access for a period of one week

Table 1.2 is showing the time zone 2 where users are allowed to access from 8am to 12pm from Monday to Friday but denied any access on the weekends.

Time Zone 3: Variation in access for a period of one week

Table 1.2 also is showing the time zone 3 where users are allowed to access from 2pm to 6pm from Monday to Friday but denied any access on the weekends.

The Time Zone 2 and Time Zone 3 belongs to the same group of employee, therefore they can be grouped together in Group Time Zone, for example Group Time Zone 1.

There are a total of 5 Group Time Zones available for use.

Every new registered user belongs to Time Zone 1. Default grouping combination is Group 1 and default Group Time Zone 1.

<i>Group time zone</i>	<i>Time zones</i>		
1	2	3	
2			
3			
4			
5			

Table 1.3 Group Time Zones

Under a condition where Group 1 and Time Zone 1 are in factory default status, new registered user defaults in unlocking status. If the grouping of that user does not include in grouping combination setting, then user can only record time attendance but cannot unlock the door.

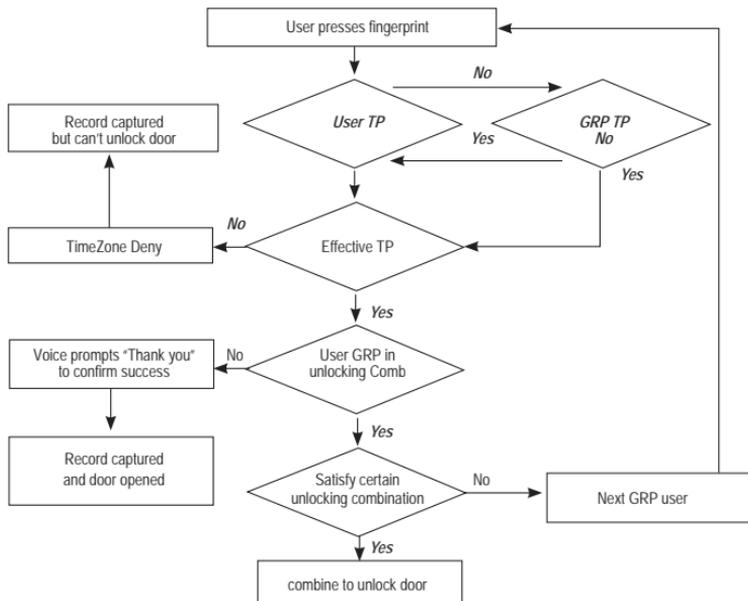
Access Options ▲
Define TP
User Acc Opts
GRP TP Define

Access Options ▲
GRP TP Define
Access Comb
Lock 254

"Access Options" has 5 main functions:

<i>Define TP</i>	To define time zones unit in Access Option.
<i>User Acc Opts</i>	To process correlative setting according to user's requirement.
<i>GRP TP Define</i>	To define group time zones, a group can support up to 3 different time zones.
<i>Access Comb</i>	To define different Time Zone combinations, and each combination is composed of different groups.
<i>Lock</i>	To control time to open electronic lock. The value 250 represents (5 sec), 200 (4 sec), 150 (3 sec), 100 (2 sec) and 50 (1 sec).

VERIFICATION FLOW OF ACCESS OPTIONS



If a user verifies his fingerprint and he is the user assigned in the time zone, the system will check whether the user is included in the user group of unlocking combination. If yes, he has to satisfy certain unlocking combination for the door to be unlocked. If he does not satisfy the unlocking combination required, he will be denied access and he needs to be verified again.

If the user is in the time zone but not included in the effective time zone, he will be denied entry but the data of his fingerprint will be recorded as data for time & attendance.

If the user is included in the time zone but not included in the user group for unlocking combination, the user's data will only be recorded as time & attendance data and he will be denied access.

FUNCTION DESCRIPTION DEFINITION OF TIME ZONE

<i>Time Zone</i>	Range of time specified for access options. The system can define a maximum of 50 time zones. Each user can set a maximum of 3 time zones.
<i>Time Region</i>	A certain period of time with a format of HH:MM - HH:MM, operates in 24 hours format and accurate to the minutes. For each time zone, 7 time regions can be set.

- *Enter "Define TP" and screen displays as follows:*

Press "OK" to enter settings of time zone 1 and the screen will display as follow:

Define TP ▲ ▶ Time Zone No ESC OK	Def TP 1 ▲ Sun 00:00-23:59 Mon 00:00-23:59 Tue 00:00-23:59	Def TP 1 ▲ Tue 00:00-23:59 Wed 00:00-23:59 Thu 00:00-23:59	Def TP 1 ▲ Thu 00:00-23:59 Fri 00:00-23:59 Sat 00:00-23:59
--	---	---	---

Definition of time zone 1 above is all-day open, i.e. factory default status.

- *For example:*

Users are allowed to access from 08:30-18:00 during work time from Monday to Friday. Saturdays and Sundays are off day in which the users are not allowed any entry.

Users are allowed to redefine the time zones depending to their practical requirements.

Def TP 1 ▲ Sun 23:59-00:00 Mon 08:30-18:00 Tue 08:30-18:00	Def TP 1 ▲ Tue 08:30-18:00 Wed 08:30-18:00 Thu 08:30-18:00	Def TP 1 ▲ Thu 08:30-18:00 Fri 08:30-18:00 Sat 23:59-00:00
---	---	---

DEFINITION OF GROUPING FUNCTION

Grouping function can segregate users into group and combine different groups into different unlocking combinations. The function provides convenience to grouping management of Access Options. The grouping function can combine as many unlocking combinations as possible from the five groups. New registered user default belongs to Group 1 but the users in Group 1 can be relocated into another group.

- Enter "GRP 1 TP Define" and screen displays as follows:

GRP TP Define ▲	GRP1 Dflt TP ▲
Group No.	TP 1
1	1
ESC	TP 2
OK	8
	TP 3
	40

There are 3 time zones in GRP TP Define. Relationship amongst these 3 time zones is "OR". Group 1 is effective in time zone 1, 8 and 40.

Press OK to enter

- Enter "GRP 2 Dflt TP" and screen displays as follows:

GRP TP Define ▲	GRP1 Dflt TP ▲
Group No.	TP 1
2	1
ESC	TP 2
OK	8
	TP 3
	40

Setting of time zone of group 2:

From the diagram shown above, Group 2 is effective in time zone 2, 10 and 38.

Press OK to enter

USER ACCESS OPTIONS

User Access Options is to process correlative setting according to user's requirements.

- Enter Access Options menu to check user's Access Options status.

User Access Options include user grouping setting, use group time zone and user time zone

<i>Grouping</i>	divides registered users into several groups making it manageable.
<i>Use group time zone</i>	is whether the user uses default time zone of the belonged group.
<i>User time zone</i>	is for user to set user's unlocking time, and select number of time zone already being set.

Note

Relationships between Use Group Time Zone and User Time Zone *Yes* and *No* in “Use Group Time Zone” only have impact on the following user time zone:

- If *use group time zone* is “Yes”, then user time zone will automatically be assigned the value of serial number of time zone of belonged group (group time zone should be set in advance).
- If *User Time Zone* is changed, then *use group time zone* automatically be changed to “No”.

• **Example of settings:**

The following example is to set user 00001 and 00002 to group 1 and group 2, respectively.

- * Enter setting interface of serial number 00001, and screen displays as the following:

Press “OK” to enter setting menu of use group time zone. Press “▲” and “▼” keys and select “Yes”. The screen will display as the followings:

User Acc Opts ▲	User 00001 Opt ▲	User 00001 Opt ▲
Enroll ID: 00001	Belong to GRP 2	TP 1 1
ESC OK	Use GRP TPs No	TP 2 40
	TP 1 1	TP 3 48

User of serial number 00001:

User’s belonged grouping is “1”, it uses time zone of group 1 (serial number of user time zone is serial number of group time zone).

- *User 00001 is effective in time zone 1, 8 and 48.*

- * Enter setting the interface of serial number 00002, and screen will display as the followings:
Press OK to enter.

If serial number of user time zone is 1 or 20, then use group time zone automatically change to “No”.

User Acc Opts ▲	User 00002 Opt ▲	User 00002 Opt ▲
Enroll ID: 00002	Belong to GRP 2	TP 1 1
ESC OK	Use GRP TPs No	TP 2 20
	TP 1 1	TP 3

User of serial number 00002:

The user belongs to Group 2, he does not belong to any Group Time Zone but his effective time zones are 1 and 20.

When he wants to use group time zone, select "Yes". In user time zone, serial number of group time zone will be automatically assigned the value if serial number of group time zone. In contrary, if a user wants to use user time zone, just directly modify the serial number in user time zone and use group time zone will automatically change to "No".

ACCESS COMB

In order to allow user to use different time zone groups, please set the followings accordingly:

- Comb1 value set to 1
- Comb2 value set to 2
- Comb3 value set to 3
- Comb4 value set to 4
- Comb5 value set to 5

Access Options	▲
▶ DSen Delay	10
DSen Mode	NC
DSen Alarm	

DSEN. DELAY (Door sensor delay)

DSen. Delay can be configured to alert users if a door is not closing well after a time period and the input is in second format. Door sensor must be installed prior to activation of this option.

Access Options	▲
DSen Delay	10
▶ DSen Mode	NC
DSen Alarm	

DSEN. MODE (Door sensor mode)

DSen Mode to configure the time for internal buzzer to alert user if door is not closing well. You must install door sensor to activate this option.

Access Options	▲
DSen Delay	10
DSen Mode	NC
▶ DSen Alarm	

DSEN. ALARM (Door sensor alarm)

DSen. Alarm can be configured to alert users if a door is not closing well after a time period.

DURESS OPTIONS

The G2 will trigger the alarm system after a duress fingerprint is verified successfully.

MANAGEMENT OF DURESS FINGERPRINT

Duress FP ▲ ▶ New Enrollment Def. Duress FP Undef Duress FP	Duress FP ▲ ▶ New Enrollment Def. Duress FP Undef Duress FP	Duress FP ▲ ▶ New Enrollment Def. Duress FP ▶ Undef Duress FP	Duress FP ▲ Def. Duress FP Undef Duress FP ▶ Undef. All
--	--	--	--

<i>Enrollment of Duress Finger</i>	Allow enrollment of new fingerprint as duress fingerprints. Procedure for enrolling duress fingerprint is the same as normal enrollment.
<i>Define Duress Finger</i>	Define fingerprints to become duress fingerprint. User could use the same fingerprint for normal activity to become duress fingerprints. Recommended to define backup finger as duress finger. <div data-bbox="353 526 907 605" style="border: 1px solid pink; padding: 5px;"><p>Note Do not use duress finger to clock in or out. Duress finger is only used in G2 to send signal to alarm system.</p></div>
<i>Undefined Duress Finger</i>	To delete duress fingerprint. User is still able to use the particular fingerprint to clock in and out.
<i>Delete all</i>	To delete all duress fingerprints in the reader.

Duress Options ▲
▶ Duress FP
▶ Help Key Y
1:1 Trug N

Help Key

You may choose to change the Help Key to "Yes". Please hold down "▼" key for 3 seconds followed by the duress fingerprints verification. Success in duress fingerprint verification could trigger the alarm system.

Trigger Method

Duress Options	▲
Duress FP	
Help Key	N
▶ 1:1 Trlg	Y

Duress Options	▲
Duress FP	N
1:1 Trlg	N
▶ 1:N Trlg	Y

Duress Options	▲
1:1 Trlg	N
1:N Trlg	N
▶ Pwd Trlg	Y

There are 3 types of trigger method, which are:

<i>1:1 Trigger</i>	To trigger alarm by using 1:1 fingerprint verification. Use 1:N matching or password verification during normal operation to avoid conflict.
<i>1:N Trigger</i>	To trigger alarm by using 1:N fingerprint verification. Use 1:1 matching or password verification during normal operation to avoid conflict.
<i>Password Trigger</i>	To trigger alarm by using password verification. Use fingerprint verification during normal operation to avoid conflict.

You may choose only one method or all methods.

Alarm Delay

The timer could be configured to set off the alarm after successful verification on fingerprint. The time range is from 0 to 255 seconds.

Duress Options	▲
1:1 Trlg	N
Pwd Trlg	N
▶ Alarm Delay	10

Q2 models are provided with output for alarm system. Two types of signal could be used:

- *NO (Normally Open)*
- *NC (Normally Close)*

Consult your installer for more details.

PEN DRIVE MANAGEMENT

PenDrive Mng ▾
▸ DwnLoad AttLog
DwnLoad User
UpLoad User

If Q2 is installed far from a PC or encountering cabling problem that is causing disruption of data download, user can transfer data via USB flash disk (Pen Drive). The functions in the USB Flash disk include:

<i>DwnLoad AttLog</i>	to download transaction logs into USB flash disk and transfer into IPTime.
<i>DwnLoad User</i>	to download users into USB flash disk and transfer into IPTime.
<i>UpLoad User</i>	to copy users from IPTime and transfer to reader.
<i>UpLoad Firmware</i>	to update the firmware version of reader. You need to get the firmware update file from your resellers and copy into USB flash disk.

SYSTEM OPTION

Options	▼
▶ System Opt	
Power Mng	
Comm Opt	

System option enables user to configure the following areas:

- Date & Time Setting
- Date & Time Format
- Languages
- Advance Options

<i>Reset Opts</i>	to restore all settings back to original factory settings
<i>Del Attlogs</i>	to clear all attendance log stored in reader
<i>Clear all Data</i>	to clear all user data (i.e user name, ID number)
<i>Clr Admin Pri</i>	to clear administrator's privilege
<i>Show Score</i>	to show the quality of image captured during verification, the maximum is 50
<i>Match Thr</i>	to configure sensitivity of the optical sensor for 1:N matching
<i>1:1 Thr</i>	to configure sensitivity of optical sensor for 1:1 matching

COMMUNICATION OPTION

Options	▼
System Opt	
Power Mng	
▶ Comm Opt	

This is to configure communication settings of Q2 readers. User can choose the type of communication (TCP/IP, RS232 or RS458). Improper settings will cause connection to computer to fail.

Those options are:

<i>Baud rate</i>	to adjust baud rate of connection with RS232 or RS485
<i>Dev num</i>	the number of reader in an installed environment
<i>IP Addr</i>	to configure the IP address of reader
<i>Net speed</i>	to adjust the speed connection of Ethernet
<i>Netmask</i>	to configure netmask to suit reader into local area network.
<i>Gateway</i>	to configure gateway to suit reader into local area network.
<i>Ethernet</i>	to enable or disable Ethernet as communication method

<i>RS 232</i>	to enable or disable RS232 as communication method
<i>RS 485</i>	to enable or disable RS485 as communication method
<i>COMM key</i>	communication key between reader and software, always set to "0"

LOG OPTION

Options ▾
Power Mng
Comm Opt
▶ Log Opt

If reader has capacity storage limit of a maximum 50,000 transaction logs and to ensure that all transactions are intact in the reader, user can adjust the warning level of transaction storage to for example 40,000 or 45,000. When the transaction storage reaches the warning level, reader will alert users with a beep.

<i>Alm SuperLog</i>	to instruct reader to alert user if the transaction storage of administrator login is less than as configured, default is 99.
<i>Alm AttLog</i>	to instruct reader to alert user if the transaction storage is less than as configured, default is 99.
<i>ReCheck Min</i>	to instruct reader to update clocking times of all user in a time interval, default is 10 minutes.

AUTO TEST

Options ▾
Comm Opt
Log Opt
▶ Auto test

This option allows Q2 resellers/technician to run test to the reader to identify any error. Please do not run test without guidance/supervision from Q2 resellers/technicians.

SYSTEM INFO

Options	▼
Log Opt	
Auto test	
▶ Sys Info	

User may check the information stored in the reader under this option.

The information includes:

<i>User Cnt</i>	to show total of users in reader	
<i>FP Cnt</i>	to show total of fingerprints templates in reader	
<i>Att Log</i>	to show total of attendance log in reader	
<i>Admin Cnt</i>	to show total of administrators in reader	
<i>Pwd Usr</i>	to show total of password users in reader	
<i>Super Logs</i>	this item is used by Q2 technicians for testing purpose	
<i>Free Space Inf</i>	to show empty spaces which are available in reader	
<i>Dev Info</i>	<i>FPCnt (100)</i>	to show the number of fingerprints templates stored in reader
	<i>AttLog (10k)</i>	to show the amount of attendance log could bestored in reader
	<i>Super Logs</i>	for testing purpose
	<i>Manu time</i>	manufacturing time of reader
	<i>Serial Num</i>	serial number of reader
	<i>Manufacturer</i>	name of manufacturer
	<i>Device name</i>	name of reader
	<i>Alg Version</i>	to show the algorithm version use by the reader
<i>Firmware ver</i>	to show the firmware version use by the reader	

Note

This Chapter is meant for qualified installer only. The installation of Q2 reader shall be handled by a well-trained installer. If you are not a qualified installer, you can ignore this Chapter or this Chapter serves as reference for all types of connections available for the Q2 reader only.

C2 CONTROLLER

The C2 controller is bundled with Q2 fingerprint reader.

1. To power on the Q2 fingerprint reader
2. To control door lock accessories
3. To provide communication between Q2 reader and RS232, RS485 or TCP/IP
4. To output signal to trigger bell to ring
5. To output signal to trigger alarm system



8-Pin Line Port

Located at the back of the Communication C2 Controller. This port connects to the back of the reader using the straight RJ45 cable provided. The distance from the controller to the reader is recommended to be not more than 30meters.

Power Supply

Plug in the power cable provided here for supply of electricity to the reader.

Bell and Alarm Output Connectors

You can link the C2 controller to bell or alarm system. The connectors are hidden inside the C2 controller, to avoid outside interruption. Open the controller to see the connectors.



Lock Control -

This port allows you to connect to an optional electromagnetic door [EM lock] and door push button.

• TCP/IP Port

A straight RJ45 cable is used to connect to a network switch/hub. A crossover RJ45 cable is used instead to connect directly to a PC network port.

Serial Port

RS232 is a serial communication cable used to connect from this port at one end to a serial port of a PC at another end. RS485 cable extender should be connected to this port and the other end should connect to an optional RS232/RS485 Data Converter before it can be connected to the serial port of a PC.



The diagram of an C2 Controller and its points of connections.

POWER SUPPLY CONNECTION



1. Connect power cable from power source (AC110~240V) to C2 controller.
2. Connect direct cable from C2 controller to Q2.
3. Turn on the power source and Q2 will start.

COMMUNICATION CONNECTION

Q2 model be connected to computer by four ways:

IP Addr	192. 168. 1.201
ESC	OK

Comm Opt	▼
▶ Ethernet	Yes
RS232	No
RS485	No

TCP/IP Connection

1. Setup the IP address by network configuration

The machine default IP address is 192.168.1.201; this is a legal and available IP address in many LAN environment. If the host IP address is 192.168.1.X and it is in the same network region, then this IP can be used directly. If not, please make sure that you have changed the IP address accordingly.

2. Setup of Ethernet.

Access Menu select "Options" > "Comm. Opt" > "Ethernet", select "Yes" to enable Ethernet function.

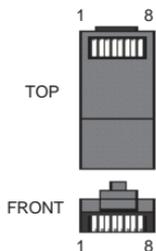
Note

When RS232/RS485/Ethernet is enabled, only the Ethernet function will be enabled while the RS232/RS485 will be disabled.

3. Turn the power off.
4. Plug the network plug to the Ethernet interface.
5. Turn the power on.



Ethernet 10/100Base-T Crossover Cable



This cable can be used to cascade hubs, or for connecting two Ethernet stations back-to-back without a hub. It works with both 10Base-T and 100Base-TX.

	Joint 1 Pin	Joint 2 Pin	
	TX+	1 ←————→ 3	RX+
	TX-	2 ←————→ 6	RX-
	RX+	3 ←————→ 1	TX+
	RX-	6 ←————→ 2	TX-

Ethernet 10/100Base-T Straight Thru Cable

This cable will work with both 10Base-T and 100Base-TX and is used to connect a network interface card to a hub or network outlet. These cables are sometimes called "whips".

	Connector Pin	Cable Color	Connector
TX+	1 ←————→	White/Orange	1
TX-	2 ←————→	Orange	2
RX+	3 ←————→	White/Green	3
	4 ←————→	Blue	4
	5 ←————→	White/Blue	5
RX-	6 ←————→	Green	6
	7 ←————→	White/Brown	7
	8 ←————→	Brown	8

Comm Opt	▼
▶ RS232	Yes
RS485	Yes

RS232 Connection

1. Setup of RS232

Access to Menu, select "Options" > "Comm. Opt" > "RS232", select "Yes" to enable RS232 function.

Note

When RS232 function is enabled, the Ethernet will be disabled.

2. Turn off the reader.

3. Plug the RS232 cable to the RS232 port of the PC.

4. Plug the RS232 other end to the RS232 joint.

5. Turn the power on.



RS485 Single Connection

Comm Opt	▼
RS232	Yes
▶ RS485	Yes

1. Setup of RS485

Access Menu, select "Options" > "Comm. Opt" > "RS485", select "Yes" to enable RS485 function.

Note

When RS485 function is enabled, the Ethernet will be disabled.

2. Turn off the reader.

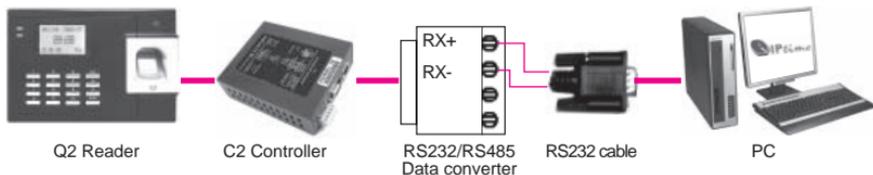
3. Plug the RS485 cable extender to the connector. Connect another end of the cable to the RS232/485 data converter.

4. Connect the RS485 data converter to the RS232 port of PC.

5. Turn the power on.

Note

The RS232/485 converter is an optional component.



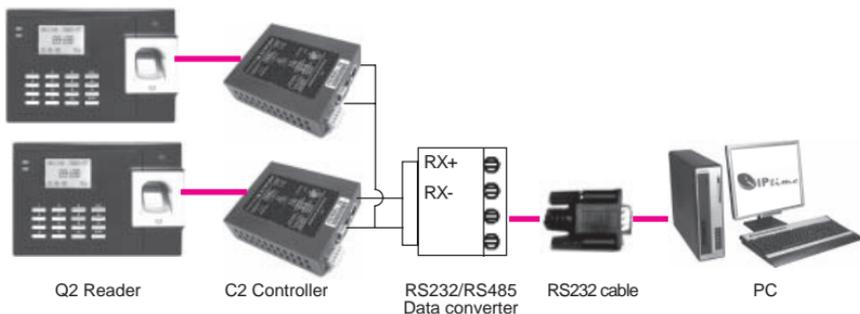
RS485 Network Connection

Comm Opt	▼
RS232	Yes
▶ RS485	Yes

Note

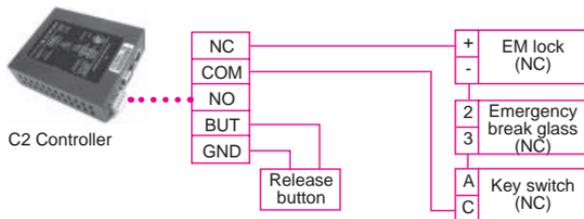
When the RS485 function is enabled, the Ethernet will be disabled.

- Setup of RS485
Access Menu, select "Options" > "Comm. Opt" > "RS485", select "Yes" to enable RS485 function.
- Turn off the reader.
- Plug the RS485 cable extender to the RS232/485 port on the Power Controller, and another end of the cable to the RS232/485 network.
- Connect computer to the RS485 network with the RS232/485 converter.
- Turn the power on.

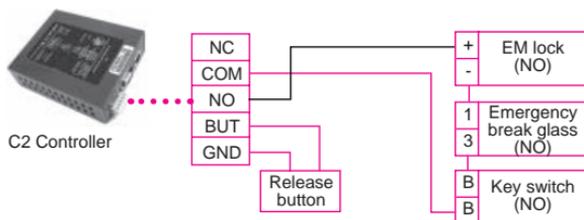


ACCESS CONNECTION

Normally Closed Lock Connection



Normally Closed Open Connection



1. Where is the ON/OFF button for Q2? The Q2 models are not equipped with any ON/OFF button. Once the power supply is turned on, the reader will be turned on and if the power supply is turned off, the reader follows.

2. I cannot connect the reader to the PC. Every time I try, the software prompts "Unable to connect" message. What should I do? Please check communication settings in **Menu > Option > Comm. Opt.** Please see more details in page 43, Connection to Computer.

3. The reader has difficulty recognizing my fingerprint. It takes many tries before I am verified. What should I do? Please make sure that your finger is not too oily or too dirty because the oil and dirt will cover the minutiae points of the fingerprints, thus making reading difficult. Make sure the Q2 reader is not facing direct sunlight because it will disturb the reading of the sensor. To deal with light interference, cover the reading area when you want to verify your fingerprint. If this occurred often, kindly ask for re-registration.

4. Alarm goes off every time when I place finger on the sensor. Why did such thing occur and what should I do? The finger you used was defined as a duress finger. Once a duress finger is verified, it will trigger the reader to activate the alarm. To undefine your finger as a duress finger, follow these steps: **Menu > Option > Access options > Duress Option > Duress FP > Undef Duress FP > Enter your user ID.**

5. Every time I verify my finger at the reader, it verifies my fingerprint but it prompts, "The clock is full". Why is that? This voice message indicates the transaction storage of the reader is full. You can either download all transaction data by using IPTime software, and software will clear off this storage after download. Or you can manually purge the data in **Advance Option > Del Attg Log.**

6. The reader is accidentally turned off by a staff. Would we lose all the transaction data and fingerprints in that reader? All transaction data and fingerprints in the reader is safe in the event of power shutdown because all the information is stored in the memory of the reader. This information can only be deleted via software or it can be manually purged in Advance option.

7. The door sensor is connected to the reader. How could I activate the door sensor function? You can activate the door sensor option by following these steps: **Menu > Option > Access option > Dsen Mode > NC/NO.** To configure the timer of the door sensor: **Menu > Option > Access Option > Dsen Delay > Enter value.**

8. I did not want to use the door sensor with reader but when I removed the door sensor, the reader was triggered and the alarm went off. What should I do to completely remove the door sensor? You must disable the door sensor option in reader by following these steps: **Menu > Option > Access Option > Dsen mode > NONE.**

9. During enrollment I heard "duplicate finger". Why was that? The "duplicate finger" voice message is to alert user if the enrolling finger is found to have existed in the reader. User must use other finger to enroll.

10. When the reader is turned on, the red LED is blinking all the time. Is there any problem with the reader? There is nothing wrong with the reader. The green LED blinks to indicate reader is on standby. When a fingerprint is verified, the LED will turn green to indicate successful verification.

11. I waved my RFID card to a reader but it did not respond. What could be the reason? Please make sure that your RFID card is registered to the reader, before you use it. Please also make sure that your user ID is assigned into the verification group that supports RFID card.