

Access Control System

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1. COM Port

This should be the first step before in using the Access Control System UI.

- Plugin the hardware and check for the COM Port number in Computer->System Properties->Device Manager->Ports
- 2. Select the COM Port number in the UI App as shown below and Click Open.

Note: Make sure that FTDI Com port driver installed. If not installed please download and install from below given link.

Link: <u>https://www.ftdichip.com/Drivers/VCP.htm</u>

View Log	User	Management	Settings	Modbus	Settings Help				
	Com.	Port COM	182	~	Close	Date: Wee	inesday, November (5, 201 ∨ Log	Load
		Date	≜ T	ime	Name	ID	Level	Department	
	•	5/11/2019	12	::50:30	RDL	1005	1	R&D	
		5/11/2019	12	:55:15	RAM	1006	2	PRODUCTION	
	٠	1	04						

2. View Log

Com	Port COM1	82	~	Close	Date:	Wednesday, November 6	5, 201 ~	Log	~	Load
	Date		Time	Name	ID	Level	Departme	ent		
•	5/11/2019		12:50:30	RDL	1005	1	R&D			
	5/11/2019		12:55:15	RAM	1006	2	PRODUC	TION		
٠	14				0					

Date: Monitor the Log files by selecting the Date

Log Files: You can select the .CSV files and Click on Load to view.

3. User Management

3.1 Enroll

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iew Log	User Management	Settings	Modbus Settings	Help		
	User Details User ID:		~		Enroll	
	Name:				ID:	1005
	ID:				Name:	RDL
	Level:			3	Level:	1
	Dept:			2	Dept:	R&D
						Enroll

Enroll: By giving the ID, Name, Level, Department to enroll the new user.

Note: Make sure that follow the instruction displayed on the Hardware during enrollment.

3.2 View

ew Log User Management Settings Modbus Settings Help	
User Details User ID:	Enroll
Name:	ID: 1005
ID:	Name: RDL
Level:	Level: 1
Dept:	Dept: R&D

By Selecting the User ID you can view the details of the user.

3.3 Delete

Log	Jser Management	Settings	Modbus Setting	gs Help			
	User Details		415		Enroll		
	User ID:		~				
	Name:				ID:	1005	
	ID:				Name:	RDL	
	Level:			3	Level:	1	~
	Dent:			8	Dont	Dep	

Click on Delete button By Selecting the User ID you can delete the details of the user.

4. Settings

4.1 Welcome Message

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Wolcom	e Message	Buzzer
Welcome	e Message: RDL TECHNOLOGIES	Buzzer: Enable Disable
– Date Tir	Save	Save Read Date Time Settings
Date:		Date Wednesday, November 6, 2019 ~
	Set	

Custom define message can be displayed on a LCD by editing the Welcome Message. Click on Save.

4.2 Buzzer

Buzzer
Buzzer: Enable Disable
Save
Date Time Settings
Date Wednesday, November 6, 2019 v
Time h: 3 🐳 m: 5 🚖 s: 30 束

Enable/Disable the Buzzer by selecting the Buzzer option and click on Save.

4.3 Date and Time

G20 30 1		
Access	Control	System
G ACCESS	Control	System

Welcome Message	Buzzer
Welcome Message: RDL TECHNOLOGIES	Buzzer: Enable Disable
Save	Save Read
Date Time	Date Time Settings
Date:	Data and a second second
Time:	Wednesday, November 6, 2019 ~
Set	

Change the Date and Time using Date Time Settings. Click on set to Save the Date and Time.

Modbus Settings 5.1 MODBUS RTU 5.1.1 MODBUS RTU Master

View Log	User Management Sett	tings Modbus Settings	Help				
	Modbus Type			- I	Mode		
	Modbus RTU	~			Master	○ Slave	
	Save	Read			Save	Read	
-		2	lote: Write Multy R	gister Function Cod	le (FC 16)		
	Slave			Sister I direttoin e du			
	Slave ID: 1		Save	Rea	d		
	Comport Settings				Register		
	Baud Rate:	9600	~		Name:	1000	17
	Data Bit:	8 Bit	\checkmark		D:	1020	
	Desites	None			ID.	1020	3
	Failty.	INOILE	<u>~</u>		Level:	1030	
	Stop Bit:	1 Bit	~		Dept:	1040	

Modbus Type: Select the Modbus type as Modbus RTU in the dropdown and click on Save.

Slave: Enter the Modbus Slave ID and click on Save.

Comport Settings:

- 1. Baud Rate: Select **Baud Rate** from the list.
- 2. Select **Data Bit** from the list.
- 3. Select **Parity** from the list.
- 4. Select **Stop Bit** from the list.
- 5. Click on Save.
- 6. Clicking on Read will display the configuration that is already saved.

Mode: Select the mode as Master.

Register: Give the Address for Name, ID, Level, Dept and click on Save.

5.1.2 Application Wiring Diagram of Modbus RTU Master:



5.1.3 MODBUS RTU Slave

Vew Log	User Management	Settings	Modbus Setting	S Heln						
view Log	User Wanagement	Settings	niedous betailg.	5 Help						
	Modbus Type					Mo	ie			
	Modbus RTU	~					○ Master	•	Slave	
	Save		Read				Save		Read	
ſ				Note: Wri	ite Holding Regis	ter Eurotion Code	(EC 03)			
				NOLE. WII	ne moluling Kegis	ter runchon code	(1005)			
	Slave									
	Slave			_	C	Devid				
	Slave Slave ID: 1				Save	Read				
	Slave ID: 1 Comport Settings	ş			Save	Read	Register			
	Slave Slave ID: 1 Comport Settings Baud Ra	s ate: 960	0		Save	Read	Register	1000		
	Slave Slave ID: 1 Comport Settings Baud Ra	ate: 960	0	_ [Save	Read	Register Name:	1000		
	Slave Slave ID: 1 Comport Settings Baud Ra Data I	ate: 960 Bit: 8 Bi	0 t	- [Save	Read	Register Name:	1000		
	Slave Slave ID: 1 Comport Settings Baud Ra Data I	s ate: 960 Bit: 8 Bi	0 t	- I - I - I	Save	Read	Register Name: ID:	1000		
	Slave Slave ID: 1 Comport Settings Baud Ra Data I Pari	ate: 960 Bit: 8 Bi ity: Nor	0 t		Save	Read	Register Name: ID: Level:	1000 1020		
	Slave Slave ID: 1 Comport Settings Baud Ra Data I Pari	ate: 960 Bit: 8 Bi ity: Nor Bit: 1 Bi	0 t ie		Save	Read	Register Name: ID: Level:	1000 1020 1030		
	Slave Slave ID: 1 - Comport Settings Baud Ra Data I Pari Stop I	ate: 960 Bit: 8 Bi ity: Nor Bit: 1 Bi	0 t ie t		Save	Read	Register Name: ID: Level: Dept:	1000 1020 1030		
	Slave Slave ID: 1 Comport Settings Baud Ra Data I Pari Stop I	ate: 960 Bit: 8 Bi ity: Nor Bit: 1 Bi	0 t te		Save	Read	Register Name: ID: Level: Dept:	1000 1020 1030 1040		

Modbus Type: Select the Modbus type as Modbus RTU in the dropdown and click on Save.

Slave: Enter the Modbus Slave ID and click on Save.

Comport Settings:

- 1. Baud Rate: Select **Baud Rate** from the list.
- 2. Select **Data Bit** from the list.
- 3. Select **Parity** from the list.
- 4. Select **Stop Bit** from the list.
- 5. Click on Save.
- 6. Clicking on Read will display the configuration that is already saved.

Mode: Select the mode as Slave.

Register: Give the Register Address for Name, ID, Level, Dept and click on Save.

5.1.4 Application Wiring Diagram of Modbus RTU Slave:



5.2 RS485 Open Data

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iew Log	User Management	Settings	Modbus Settings	Help			
	Modbus Type						
	RS485 Open Da	ita v					
	Save		Read				
			Comport Set	tings			
			comport set		<u>.</u>		
			Baud Ra	ite: 9600)	~	
			Data	Bit: 8 Bit	1	~	
			Par	ity: Non	e	~	
			Stop I	Bit: 1 Bit		~	
					Save		Read

Modbus Type: Select the Modbus type as RS485 open data in the dropdown and click on Save.

Comport Settings:

- 1. Baud Rate: Select **Baud Rate** from the list.
- 2. Select **Data Bit** from the list.
- 3. Select **Parity** from the list.
- 4. Select **Stop Bit** from the list.
- 5. Click on Save.
- 6. Clicking on Read will display the configuration that is already saved.

5.2.1 Application Wiring Diagram of RS485 Open Data



5.3 MODBUS TCP 5.3.1 MODBUS TCP Master

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Mode
Master O Slave
Save Read
Slave
Slave ID: 1
Save Read
Register
Name: 1000
ID: 1020
Level: 1030
Dept. 1040

Modbus Type: Select the Modbus type as Modbus TCP in the dropdown and click on Save.

Finger Print:

Set the Device IP Address, Subnet Mask, Gateway and click on Save.

Remote Machine:

Set the Server IP Address, Port Number and click on Save.

Mode: Select the mode as Slave.

Slave: Enter the Modbus Slave ID and click on Save.

Register: Give the Register Address for Name, ID, Level, Dept and click on Save.

5.3.2 Application Wiring Diagram of Modbus TCP Master:





5.3.3 MODBUS TCP Slave

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ew Log User Management Settings Modbus Settings Help	
Modbus Type	Mode
Modbus TCP ~	O Master Slave
Save	Save Read
Slave	
Slave ID: 1	
Natio	
Acau Acau	
FingerPrint	Register
FingerPrint Device IP: 192.168 . 1 . 45	Register Name: 1000
FingerPrint Device IP: 192.168 . 1 . 45	Register Name: 1000
FingerPrint Device IP: 192.168.1.45 Subnet Mask: 255.255.255.0	Register Name: 1000 ID: 1020
FingerPrint Device IP: 192.168.1.45 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1	Register Name: 1000 ID: 1020 Level: 1030
FingerPrint Device IP: 192.168.1.45 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1	Register Name: 1000 ID: 1020 Level: 1030 Dept: 1040
FingerPrint Device IP: 192.168.1.45 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1	Register 1000 ID: 1020 Level: 1030 Dept: 1040

Modbus Type: Select the Modbus type as Modbus TCP in the dropdown and click on Save.

Mode: Select the mode as Slave.

Finger Print:

Set the Device IP Address, Subnet Mask, Gateway and click on Save.

Slave: Enter the Modbus Slave ID and click on Save.

Register: Give the Register Address for Name, ID, Level, Dept and click on Save.

5.3.5 Application Wiring Diagram of Modbus TCP Slave





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