

RCS Operation Guide

1 Login Page



2 Home Page

	■ REMOTE CONTROL SYSTEM	☐ O Help Language▼ Guest ▼ Fullscreen
A Home	R Home	
🛿 Monitor Center 🛛 👻	- Total year guantity of this year	w alarms that are still unconfirmed
Device Management ~	Data Total user quantity of this user	
🗈 Task Management 🛛 👻		
년 Data Analysis 🗸 👻	User Quantity Dept.	Alarms Unconfirmed Alarms Processed
★ System Setting ~		0 0
	Devices Total	Omine Devices lask Quantity
	Total devices number of this user	
	P Quick Start	
	Add Device> Device Online> View Data	Create Ingger> View Alarm
	No Permission	
		Wechat Official Account Qr Code

Home page: show overview information of current user

3 Monitor Center

This part is used to monitor parameters, alarm record,etc.

3.1 Devices Map



You can find device on map by searching device name, serial number, etc.

3.2 Devices List

FRECON	□ REMOTE CONTROL SYSTEM	м					⊠ C	Help Language 🕶	Guest 🔻 Fullscreen
n Home	♣ Home × III Devices List ×	Devices Map	×						
Monitor Center									
Ref Devices Map	Device Status V Device M	Can sea	arch de	vice here	Search Reset				
III Devices List	Derne Goop Hame				Jediteri Treset				
Alarm Pecord		1-1-1	0	Device N	Aame: SolarDrive 01	Device Id: 8637530499	058520	Address: 广东省深圳	*宝央区石炭街道公主合田利持
Device Control Record	SolarDrive 01	ן 👄	Online	User: Gu	est	Dept: FRECON	rrent Value	Data Point: 11	멾
小 Device Online&Offline Record	< 1/1>	lcon	Status	Alarm Status	Data Point	Function Code	Latest Update	Current Value	
Device Management ~		S	0	Normal	Ctrl Comand(1Start,5Stop)	R&W Registers (03/06)	2021-04-28 14:30:03	5 🖉	Read Now Refresh History
Task Management	Device List	S	•	Normal	Running Freq	R&W Registers (03/06)	2021-04-29 15:25:31	0.00	Read Now Refresh History
* System Setting ~		<i></i>	0	Normal	DC Volt	R&W Registers (03/06)	2021-04-29 15:25:31	308 🖉	☆ Read Now Refresh History
		«	0	Normal	Output Current	R&W Registers (03/06)	2021-04-29 15:25:29	0	Read Now Refresh History
		S	0	Normal	Output Volt	R&W Registers (03/06)	2021-04-29 15:25:29	0	Read Now Refresh History
		S	0	Normal	Start Mode	R&W Registers (03/06)	2021-04-29 15:25:30	1	Read Now Refresh History

On this page, you can monitor parameters of all the devices of this user.

*Note: device is not created here.

3.3 Alarm List

- FRECON	REMOTE CONTROL SYSTEM	\square	C Help	Language Guest	 Fullscreen
🟟 Home	🟶 Home 🗴 🗷 Devices List 🗴 🗰 Devices Map 🗴 隆 Alarm Record X 🏦 Trigger Management X 🖄 Alarm Contacts X				
Monitor Center					
RI Devices Map	Device Name Device Id Select Time Period 🛗 Alarm Status V Dept.		Se	arch Reset Export	Batch Confirmation
I Devices List	8				
Alarm Record	Device Device Id Data Point Name Trigger Condition Create Time 🖨 Trigger Value Confirmation S	Stat	Alarm Recovery	Alarm Duration	Operate
Device Control Record	SolarDrive 01 8637530495058520 Fault Code Value Is More Than 2 2021-04-29 15:37:04 13		Not Recovered	00:00:16	Push Logs Details
∿ Device Online&Offline Record					Confirm
Device Management	Alarm List			Total 1 Records < 1	> 10 / page ∨
🗉 Task Management 🗸 🗸					

On this page, show the alarm record.

4 Device Management

This part is used to add new device, delete device, edit device, etc.

FRECON	Ξ	REMOT	E CONTROL SYSTE	M				E	C Help I	Language♥ Gu	est 🔻 Fullscreen
r Home	*	Home ×	I Devices List ×	N Devices Map ×	Alarm Record ×	查 Trigger Management ×	Alarm Contacts X	B Device Contr	ol Record 🗴 📮 Dev	vice Management 🗙	
Monitor Center ✓								_			
Device Management		Device State	arch device here	Name Devi	ce ld Dep	Dross to odd nou	User				
New Device				Search	Reset	Press to add new	device				
Device Management	ſ						×	_			
∿ Device Group Management		Status	Device Name/Addres	5	Device Id	Dept.	User	Protocol	Create Time	Expire Date	Operate
 E Task Management ✓ E' Data Analysis ✓ 		Ø	SolarDrive 01 广东省深圳市宝安区石著	首街道华丰富田科技园B3	8637530495058520	FRECON	Guest	MODBUS RTU	2021-03-29 18:46:49	2026-03-28	Details Edit associatedCameta Delete
X System Setting ∨					Dev	vices List				Total 1 Records <	1 > 10 / page ∨

- 1. Manage all the device.
- 2. Click "New" to add new device.

4.1 Create Device

On "Device Management" page, click "New" to add new device, below is device adding page:

	■ REMOTE CONTROL SYSTEM	Melp Language SC	
A Home	R Home X Device Management X O New Device X		
Device Management	* Device Id: 8637530494836210	And a second	
③ New Device	Product Name :	Protocol:	26.27
G Device Management			In TRACE
小 Device Group Management	Device Name: solar_test01		
🗈 Task Management 🗸 🗸	lcon: +		
O User Center ~	Modify		
🕑 Data Analysis 🛛 🗸 🗸			
⊮ System Setting ∽	Overtime Time: 120	Seconds Overtime Time Must Exceed The Collection Time, Otherwise Device Will Offline Frequently.	
Video management	Device Address:		
	Hidden Map:	click to select device address	
	Gaode Map Google Map		
	Please Enter The Location		
		0 BRCE	

Instruction:

1:"Device Id", the Id is on packing box, it is unique.

- 2: "Device Name", Input any you like.
- 3: "Overtime Time", default value is 120.
- 4: Click on the map to select device address.
- 5: Click "OK" to finish operation.

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Batch Add	put is 10 tir	nes the real value	e, here the minii	mum, maximum	ı, minimum or	iginal value,	maximum or	riginal value nee	d to be filled in 0	-1-0-10 in this c	rder.				
Data Name	Unit	Slave Address	Function Code	Register Address	Data Format	Data Bit	Byte Order	Decimal Digits	Minimum Value	Maximum Valu	Minimum Origina Value	l Maximum Original Value	Collect Or Not	Collection Cycle	Operate
								No Data							

5 Task Management

This part is mainly used to add "Fault Trigger Task" and "Timer Task".

5.1 Trigger Management

FRECON	■ REMOTE CONTR	OL SYSTEM				\square	O H	elp Language▼	Guest 🔻 Fullscree
n Home	A Home × 🚊 Trigg	er Management 🛛 🗙							
Monitor Center V									
Device Management	Trigger Name	Device Name	Device Id	Data Point Name					Batch Delete Trigg
Task Management	Alarm Contact V	Trigger Status V	Search Reset	New	ck to add trigge	er			
Alarm Contacts					*				
New Trigger	Trigger	Device Name	Data Point	Contac	s Trigger Condi	ition Forwardin	g Data	Status	Operate
道 Trigger Management									
New Timer	Fault Trigger 01	SolarDrive 01 8637530495058520	Fault Code	Guest	Value Is More Than 2 M	dinutes Hig No Forwardi	ig Data	Q	Edit
③ Timer Task									Delete
☑ Data Analysis			Tr	igger List				Total 1 Records	< 1 > 10/page
X System Setting				igger List					

1. Click "New" to add trigger task.

2. In this sample, a trigger task "Fault Trigger" is created, it is used to monitor fault code. If an error occured, the trigger will record this error, and push the error information to user by SMS or email.

5.1.1 Create alarm contacts

When task is triggered, if you have created alarm contacts, then the alarm message would be pushed to the contacts. Click "Task Management"->"Alarm Contacts"->"New", show as below:

■ REMOTE CONTROL SYSTEM			C Help Language▼
希 Home × 前 Trigger Management × 虎 Alarm Co	antacts ×		
Edit		Х	
User V Gues Phone No. Phone No. Phone No.:	bommy 1 +86(China) V 18503043104 2		
Contacts E-Mail :	18170530257@163.com		Create Time
bommy	Required By Phone/Email		2021-04-30 09:53:12
	Ca	ncel Ok	Total 1 Records

Instruction:

- 1: Input contacts name.
- 2: phone number
- 3: E-Mail address

5.1.2 Create new trigger task

On "Trigger Management" page, click "New" to add new trigger, below is the page:

FRECON	■ REMOTE CONTROL SYSTEM	☑ O Help Language▼ Guest ▼ Fullscre
n Home	♠ Home × ☆ Trigger Management × Alarm Contacts × . New Trigger ×	
	* Tripper Name: Tripper 01	
Device Management ~	ngger (vener) ingger vi	
Task Management	Enable/Disable:	
Alarm Contacts	* Device: SolarDrive 01 - 8637530495058520 2	
 New Trigger 	Select Data Point: Output Current	
资 Trigger Management	3	
New Timer	Trigger Condition: Value ≥ X More Than M Minutes	
 Timer Task 	Wechat Contact: Wechat Contact Billing Rules: ¥0/Wechat	
🖻 Data Analysis 🛛 🗸	Sms Contact: bommy x	
≭ System Setting ✓	5	
	Email Contact: bommy × Billing Rules: ¥ 0/Email	
	Voice Contact: Voice Contact Billing Rules: ¥ 0.2/ Voice	
	App Contact: Guest x	
	Re-Notify Internal: 0 Seconds 🕲	
	* Forward Or Not: No Yes	

Instruction

1: "Trigger Name": input trigger name, any is ok

2:"Device": select the device that you want to carry out the task.

3:"Select Data Point": select witch parameter you want to monitor.

4:"Trigger Condition":

1) Value $\ge X$: if the "value" of the parameter is bigger than "X"(set value), then task will be triggered.

2)Value \leqslant Y: if the "value" of the parameter is less than "Y"(set value), then task will be triggered.

3) Value \ge X Or Value \le Y: if he "value" of the parameter is bigger than "X"(set value) or less than "Y"(set value), then task will be triggered.

4) Value≥X Or Value≤Y More than M Minutes: if he "value" of the parameter is bigger than "X"(set value) or less than "Y"(set value), and the state last for M Minutes, then task will be triggered.

5) X<Value<Y: ...

6) Value≥X More than M Minutes: if the "value" of the parameter is bigger than "X"(set value), and the state last for M Minutes, then task will be triggered.

*Recommend: Due to the delay of network, the item that contain "More than M Minutes" is better to select, this will make task more accuracy.

5: "Select contacts": if you have already created contacts, you can select, then the trigger message will be pushed to him.

6: Click "OK" to finish.

5.2 Timer Task Management

	■ REMOTE CONTROL	DL SYSTEM				🗠 C Help	Language 🔻	Guest 🔻 Fullscreen
🖨 Home	n Home × ≌ Trigger	r Management X 💿 Timer Task	×					
Monitor Center V								
Device Management	Task Name	Task Status V Devi	ce Name					Batch Delete Timer
Task Management	Device Id	Data Name Sea	rch Reset New	Click to add i	new timer ta	ISK		
🖄 Alarm Contacts				\$				
O New Trigger	Name	Device	Data Point	Execute Ways	Create Time	Data To Write	Status	Operate
û Trigger Management	Timing Stop	SolarDrive 01 8637530495058520	Ctrl Comand(1Start,5Stop)	(UTC+08:00) Beijing.Taipei. Chongqing	2021-04-29 17:14:57	5	Q	Details Modify Delete
💿 Timer Task 🖉	Timing Start	SolarDrive 01 8637530495058520	Ctrl Comand(1Start,5Stop)	(UTC+08:00) Beijing.Taipel. Chongqing	2021-04-29 17:14:06	1	¢?	Details Modify Delete
X System Setting V				Task List			Total 2 Record	s < 1 > 10 / page ∨

1. Click "new" to add new timer task.

2. In this sample, Two timer tasks is created. One is "Timing to start", another is "Timing to stop"

5.2.1 Create timer task

Click "Task Management"->"Timer Task"->"New" to add new timer task. The timer information is showed as below:

- FRECON	■ REMOTE CON	TROL SYSTEM				C Help	Language♥	Guest 💌	Fulls
🗰 Home	🖨 Home 🛪 🚊 Ti	igger Management × 🚯 Alarm Contacts ×		⊙ Timer Task ×	New Timer ×				
Monitor Center									
Device Management	• Na	me: Timing start01	1						
Task Management	* De	rice: SolarDrive 01 - 8637530495058520	2						
Alarm Contacts			2						
O New Trigger	• Data P	int: Ctrl Comand(1Start,5Stop) 3							
Trigger Management	* Data To W	rite: 1							
New Timer	• Execute W	avs: C Execute Once 💿 Receat 🔿 Interval Es	recution E						
	E.C.O.C.	in the second since the second s	5						
🖻 Data Analysis	* Time Z	one: (UTC+08:00) Beijing, Taipei, Chongqing, Hong	Kong, Urumqi	6					
¥ System Setting	• Planning T	me: Monday × Tuesday × Wednesday ×		Hour	Minute Second				
								iot	

Instruction

1: "Name": timer task name.

2: "Device": select the device that you want to carry out the timer task.

3: "Data Point": select the parameter that you want to write data down; In this sample, I select the data point (Ctrl Command),

4: "Data to write": set the data that you want to write down to the parameter that you select at step '3'. In this sample, write data "1" (means start drive) to data point (Ctrl Command).

5: "Execute Ways": select ways that you want to execute the task.

1) Execute Once: means only once the task will be executed.

2) Repeat: means you want to execute the task repeatedly. (you can select the planning time from Monday to Sunday)

3) Interval Execution: means you want to execute the task with interval time. (you can set time range and intervals).

6: Used to set time.

7: Click "OK" to finish.

6 User Center

If you want to create one user. You need follow the steps:

- 1) create a role.
- 2) create a department.
- 3) create a user

6.1 Create a Role

Role is an attribute of an user, it contains the scope of authority of the user.

Click "Role Management" -> "New" to add new role. If you already added, no need to add again.

SOLAR_Level2	■ REMOTE CON	NTROL SYSTEM					С	Help	Language 🔻	solar_t
畲 Home	🚓 Home 🗴 🔺	User Management 🗙 🔒 Ro	le Management 🗙	Department Management ×						
Monitor Center	New Role									×
Device Management										
Task Management	* Role Name:	Role 01	1							
O User Center	Dept.:									
Department Management	Access Data Scope:	View The Data Of Current Dept.	2							
$\underline{\mathcal{S}}_{0}$ Role Management			2							
🋔 User Management	Description:									
E Transition Law	Menu Permission									
Iransaction Log	Menu Name			Menu Type						
🕑 Data Analysis	🕨 🔽 Home			Menu						
M. Curkers Collins	🕨 🔽 Monitor C	lenter		Menu						
× system setting	🕨 🔽 🛛 Device Ma	anagement		Menu						
Video management	🕨 🔽 Task Mana	agement		Menu						
	👻 🔽 User Cente	er		Menu						
	• 🗹 Depar	tment Management	3	Menu						
	Nole N	Management	5	Menu						
	Viser N	Management		Menu						
	Data Apale	unie		Menu						
	 Data Analy System Set 	etting		Menu						
	Alarm	Push Register		Menu						
	Basic I	Information		Menu						
	Big scr	reen monitoring		Menu						
	+ 🔽 Dashb	ooard Configure		Menu						

Instruction:

- 1: "Role Name", input role name.
- 2: "Access Data Scope", set the data scope that the role can access.
 - 1) view only data of current user: means the user can only view its own device.
 - 2) view the data of current Dept: means the user can view all the data of current department it belonging to.
 - 3) view the data of current Dept. And Dept directly under current Dept: means the user can view all the data of current department it belonging to and the data of its directly sub department.
 - 4)View the data of current Dept And all sub-Dept: means the user can view all the data of current department it belonging to and the data of its all the sub department
- 3: "Menu Permission": Check which menu permission the user can have.

In this sample, I create two roles:

One is "Role 01" : Access Data Scope is "view the data of current Dept", it is a department role.

Edit Role			
* Role Name	: Role 01		
Dept	SOLAR_Level2		
* Access Data Scope	: View The Data Of Current Dept.	~	
Description	: The Description		
Menu Permission			
Menu Name		Menu Type	
🕨 🔽 Home		Menu	
🕨 🔽 Monitor	Center	Menu	
🕨 🔽 Device 1	lanagement	Menu	
🕨 🔽 Task Ma	nagement	Menu	
🕨 🔽 User Ce	iter	Menu	
🕨 🔽 Data An	ilysis	Menu	
🕨 🔳 System	ietting	Menu	
🕨 🗹 Video m	anagement	Menu	
			Cancel

Another is "End user role": Access Data Scope is "view only data of current user", it is a role for end user, it is without "User Center" menu permission.

* Role Name:	End user role	
Dept.:	SOLAR_Level2	
* Access Data Scope:	View Only Data Of Current User	V
Description:	The Description	
Menu Permission		
Menu Name		Menu Type
🕨 🔽 Home		Menu
🕨 🔽 Monitor Ce	nter	Menu
🕨 🔽 🛛 Device Mar	agement	Menu
🕨 🔽 Task Manag	jement	Menu
 User Center 	r	Menu
🕨 🔽 🛛 Data Analys	sis	Menu
		h fa a u
 System Set 	ting	Wenu



6.2 Create a department

Department is an attribute of a user, means it is department not end user Click "Department Management" -> "New" to add new department.

SOLAR_Level2	■ REMOTE CONTROL SYSTEM	🖂 🗘 Help Language	▼ solar_test01 ▼ Fullscreen				
A Home	A Home X a Department Management X						
2 Monitor Center ~				-			
Device Management ~	Dept. Superior Dept.	Role Name	Search Reset New				
🗈 Task Management 🗸 🗸			\$				
O User Center	Dept.	Superior Dept.	Phone No.	Distributable Balance	Expire Date	Operate	
Department Management	SOLAR_Level2	FRECON_SOLAR	+86 0755 88605930	¥Ο	2022-04-30	Details Edit	
💩 Role Management							
User Management							
Transaction Log							
🗹 Data Analysis 🗸 🗸							
X System Setting ~							
D Video management							

Input department information.

For "Dept Role" item, select the role "Role01" we created in 6.1 section, then the department will contain the menu permissions of "Role01".

SOLAR_Level2	E REMOTE CC	INTROL SYSTEM	C H	elp Languag	ge▼ solar_te
R Home	希 Home 🗙 🏥	Department Management ×			
Monitor Center Ed	lit				×
Device Management					
Task Management	Dept. Name:	dept 01			
O User Center	Superior Dept.:				
Department Management	• Dept. Role :	Role 01 \times			
🕭 Role Management					
🏝 User Management	Phone No.:	+86(China) V 18503043104			
Transaction Log	• Email:	18170530257@163.com			
🗹 Data Analysis	• Website :	www.com			
🛪 System Setting					
D Video management	Dept. Address:	China			
	* Expire Date:	2022-05-10			
	Remark:	Remark			
_					
				Cancel	Ok

In this sample, I created a department named "dept01"



6.3 Create a department user

If you want to create a user that has the permission to create sub user, then you need to create a department user.

After creating a role and a department, then you can create a department user according to them.

Click "User Management" -> "New" to add new user.

Input user information

SOLAR_Level2	Ξ	I REMOTE CONTROL SYSTEM				C	Help
	*	Home ×	▲ User Management ×				
Monitor Center	~		New User				х
	~	User Name					
🖾 Task Management	~		* User Name:	user 01			
User Center	^		* Name :	user			
🏦 Department Management			E-Mail:	E-Mail			
🔏 Role Management			ſ				1
🌢 User Management			* Phone No.:	+86(China) V +8675588605930			
			* Password :				
🖻 Data Analysis	~		* Confirm Password :				
	ř		* Dept.:	dept 01 V			
Video management	Ť		* User Role :	Organization Administrator × 2			
				2			
			* Default Language:	English V			
				(Cancel	Dk	_

Instruction

1: "Dept", select which department the new user belonging to. In this sample, we select "dept 01" we created in section 6.2.

2: "User Role", default is "Organization Administrator".

In this sample, we created a new user named "user 01". After this, the "user 01" is one user as the department of "dept 01".



6.4 Create an end user

If you want to create an user that only can view his own data, then you need to create a end user that with the role "End user role" created in section 6.1.

Click "User Management" -> "New" to add new user.

New User		
* User Name :	end user	
* Name :	user	
E-Mail:	18170530257@163.com	
* Phone No.:	+86(China) V 18503043104	
* Password :		
* Confirm Password :		
* Dept.:	SOLAR_Level2	
* User Role :	End user role ×	
* Default Language:	English V	
		Cancel Ok

Instruction:

- 1: "Dept": Select the department that you belonging to.
- 2: "User Role": Select the role "End user role".