

Operation Manual

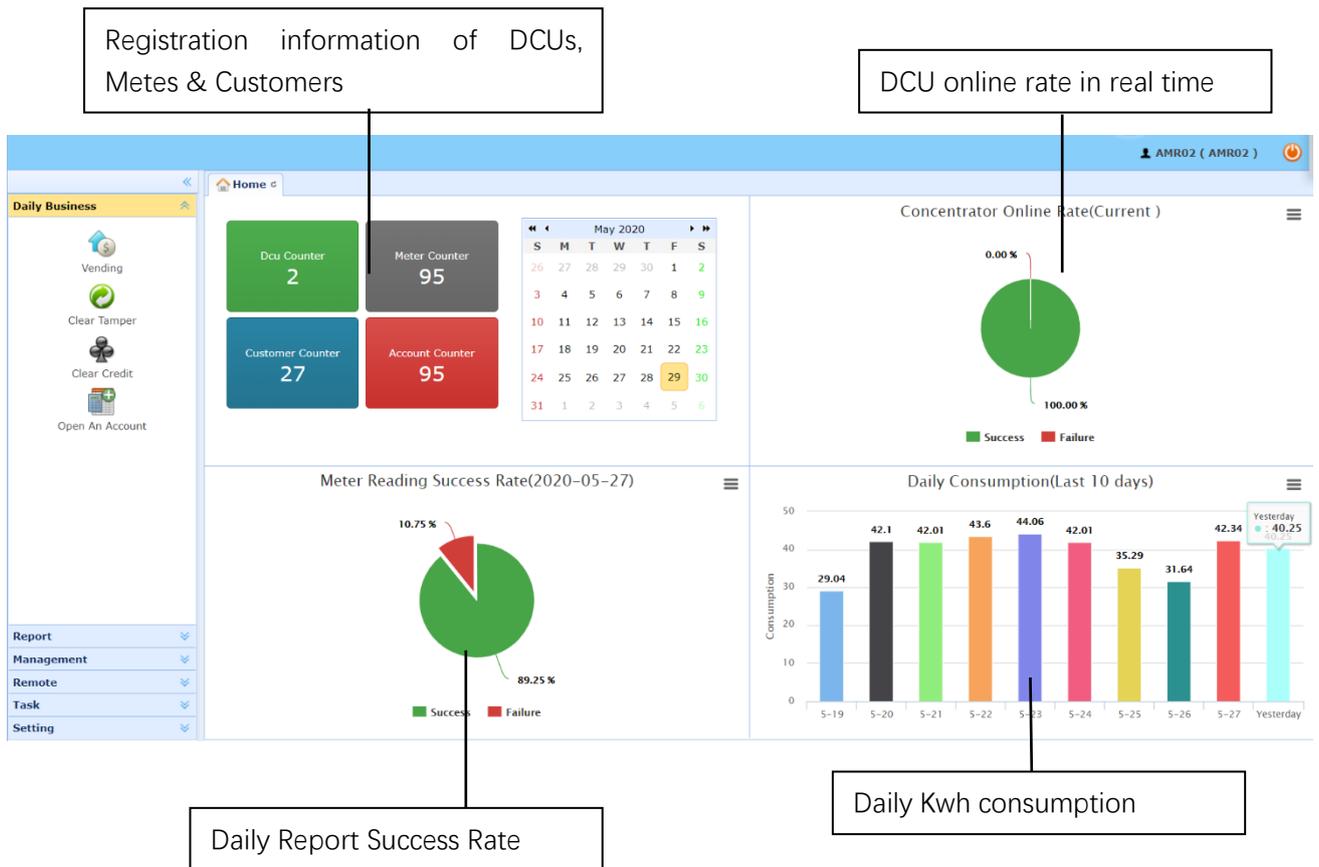
of AMI system

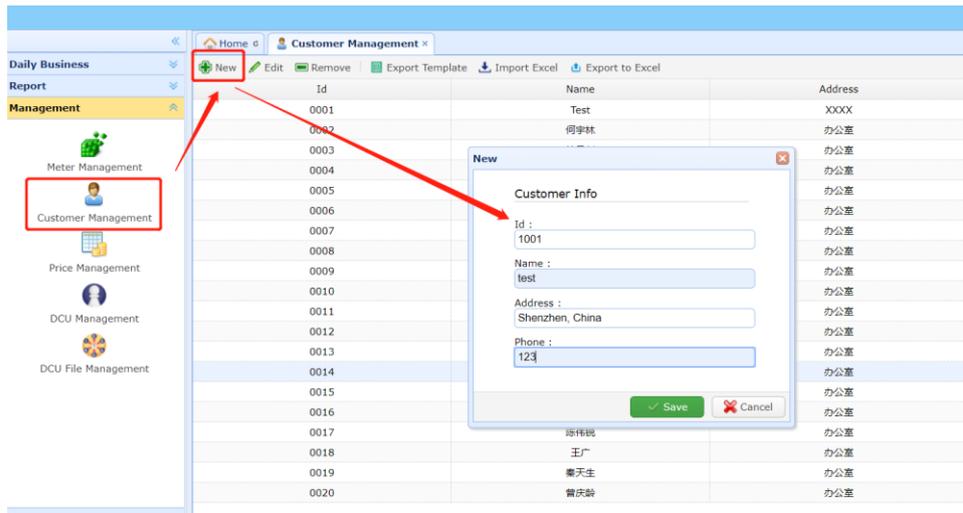
1. Login

We will give you account information after you purchase smart meters from us.

Enter our website of our AMI system, input "project name/company name", "use name", "password" and "verification code", and then click "login".

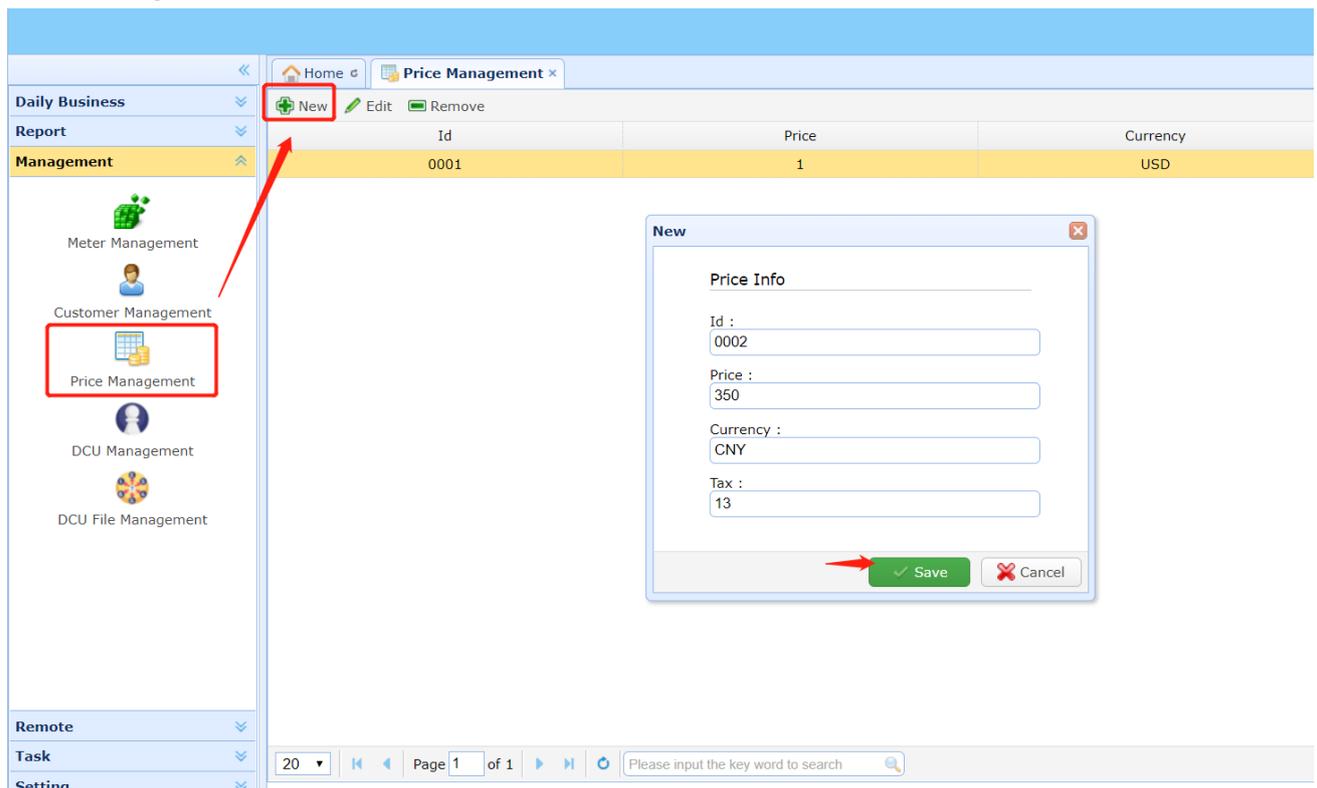
Enter AMI system, you will see the "Home Page", you can take a overall view here.





- Click “new” to add a new customer, insert the Id, Name, Address, Phone information
- Click “Edit” to change the customer information.
- Remove- remove a customer from this system. Before remove, you need to untie up this Customer information from an account if this Customer belong to an account.

2.3 Price Management



- New – add a new price (tariff). Insert the ID, price, currency, and tax, click save. **Please note that if the tax is 13%, only insert 13 there.**
- Edit- change the price information.
- Remove- remove a price. Before remove, make sure this price is not related to any account

2.4 Open an Account

- Daily Business – Open an Account, click “New” to add a new account. Select Account No. (Customer Information), Meter No.(Meter ID), and Price Id, click Save for tie up the 3 items and get a new account.
- Edit – Change the account information
- Remove – Remove an account (untie up the Customer information, Meter ID, and Price.

The screenshot displays the 'Open An Account' window in the KIMANS metering software. The interface includes a top navigation bar with 'Home' and 'Open An Account' tabs. A left sidebar contains icons for 'Vending', 'Clear Tamper', 'Clear Credit', and 'Open An Account' (highlighted with a red box). The main area shows a table of existing accounts with columns for Account No., Customer Name, Meter No., and Price Id. A 'New' dialog box is open in the center, titled 'Account Info', with fields for 'Account No. : 0001', 'Meter No. : 4700000001', and 'Price Id : 0001'. The dialog has 'Save' and 'Cancel' buttons. The bottom of the window shows a search bar and page navigation controls.

Account No.	Customer Name	Meter No.	Price Id
0001	Test	00000	0001
0001	Test	00000	0001
0001	Test	00007	0001
0001	Test	00012	0001
0001	Test	00015	0001
0001	Test	00018	0001
0001	Test	00023	0001
0001	Test	00025	0001
0001	Test	700026	0001
0001	Test	4700000001	0001
0001	Test	470003	0001
0001	Test	470003	0001
0001	Test	470003	0001
0001	Test	47000302	0001
0001	Test	47000302	0001
0001	Test	47000302	0001
0001	Test	47000303	0001
0001	Test	47000303	0001
0001	Test	47000303	0001

3. Vending Electricity

The screenshot shows the 'Vending' module interface. On the left, there is a sidebar with icons for 'Vending', 'Clear Tamper', 'Clear Credit', and 'Open An Account'. The main area displays a table of transactions with columns: Account No., Customer Name, Meter No., Meter Type, Price, Currency, and Tax (%). A 'Vending Receipt' popup is visible on the right, containing the following details:

- Account No.: 0001
- Customer Name: Test
- Meter No.: 47000303975
- Price: 1 USD
- Tax: 0%
- Total Paid: 10.00 USD
- Total Unit: 10.0 kWh
- Date: 2020/5/29
- Time: 17:10:11
- Barcode: 5075 1598 0030 1835 0513

A red arrow points to the 'Print' button at the bottom right of the receipt popup.

- Get a vending receipt, you can print it if the computer connecting a printer.

4. Clear Tamper/Clear Credit Token

- Clear tamper token – for clear tamper alarm if the meter in the tamer status.
- Clear credit token – For clear all credit in the meter.

The screenshot shows the 'Clear Tamper' module interface. The 'Clear Tamper' icon in the sidebar is highlighted with a red box and a red arrow. A 'Confirm Clear Tamper Info' dialog is open, showing the following fields:

- Account No.: 0001
- Customer Name: Test
- Meter No.: 0166170000011

The dialog has 'Generate' and 'Cancel' buttons.

The screenshot shows the 'Clear Credit' module interface. The 'Clear Credit' icon in the sidebar is highlighted with a red box and a red arrow. A 'Confirm Clear Credit Info' dialog is open, showing the following fields:

- Account No.: 0001
- Customer Name: Test
- Meter No.: 0166170000128

The dialog has 'Generate' and 'Cancel' buttons.

5. Set Max Power Threshold

The screenshot shows the KIMANS metering system interface. On the left sidebar, the 'Set Max Power' option is highlighted with a red box. A red arrow points from this option to a 'Confirm' dialog box. The dialog box contains the following information:

Max Power Info	
Account No. :	1
Customer Name :	OLUSEGUN SAMUEL ADENI.
Meter No. :	47001106146
Max Power (W):	<input type="text"/>

At the bottom of the dialog box, there are two buttons: 'Generate' (with a green checkmark icon) and 'Cancel' (with a red X icon).

- Set the max power threshold for a meter
- The threshold is in W
- The meter will trip if the load exceeds the threshold.
- After 1 minute, the meter try to reconnect the power, If still exceeds the threshold, the meter trip and reconnect after 1 minute; After 5 times trip, the reconnect time extend to 30 minutes.

6. DCU Management & DCU File Management

6.1 Add the DCU in the system

The screenshot displays the 'DCU Management' interface. On the left, a sidebar contains navigation options: Meter Management, Customer Management, Price Management, DCU Management (highlighted with a red box), and DCU File Management. The main area shows a table with columns for Id, Name, and Location. A 'New' button is highlighted with a red arrow pointing to a 'New' dialog box. The dialog box contains fields for DCU Info, Id (with value 86182002), Name, and Location, and buttons for Save and Cancel.

Id	Name	Location
861800119	edward desk	edward desk
861900083	DCU	XXXX

New

DCU Info

Id :
86182002

Name :

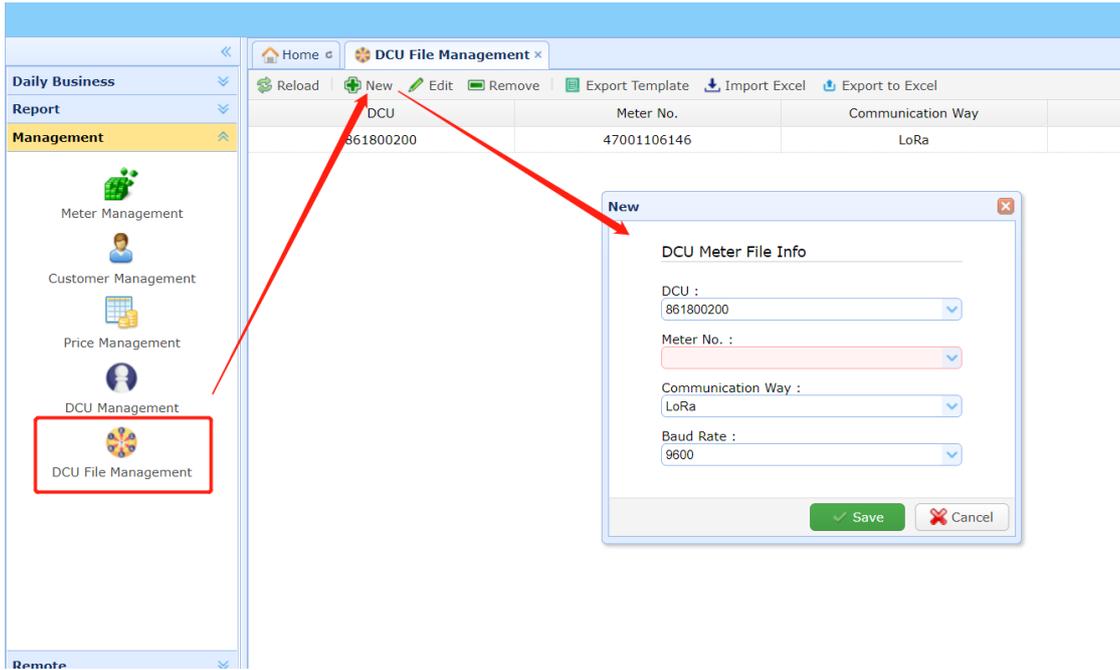
Location :

Save Cancel

- New- Insert DCU Id which print on the DCU, Name, and Location, click Save
- Edit – Change information of a DCU
- Remove – remove a DCU from the system.

6.2 DCU File Management – Tie up the DCU and Meters

- Select DCU and corresponding meter ID, and communication way and Baud Rate.



7. Report

7.1 Vend Report

Account No.	Customer Name	Meter No.	Price	Tax	Total Unit	Total Paid	Operator	Token
0001	Test	47000303975	1.00 USD	0.00%	10.0 kWh	10.00 USD	AMR02	5075 1598 0030 1835
0001	Test	47000403957	1.00 USD	0.00%	0.1 kWh	0.10 USD	Admin	6526 6755 7303 3335
0001	Test	47000403916	1.00 USD	0.00%	0.1 kWh	0.10 USD	Admin	5741 7773 0944 6847

- You can check the vending record with recharge amount, recharge token, generation time, operator, etc.
- You can print or export to excel.

7.2 Clear Tamper token & Clear credit token Record

The screenshot shows the KIMANS metering system interface. The left sidebar is expanded to the 'Report' section, where 'Clear Tamper Record' and 'Clear Credit Record' are highlighted with red boxes. Red arrows point from these boxes to the 'Clear Tamper Record' and 'Clear Credit Record' tabs in the top navigation bar. The main content area displays a table with the following data:

Account No.	Meter No.	Operator	Token	TID Date
0001	47000403957	Admin	6460 3864 8468 7986 8097	2020/3/27 16:55:24
0001	47000403916	Admin	4716 6525 8339 2555 9921	2020/3/27 16:55:21

- Check the record of clear tamper token or clear credit token here.

7.3 Record of setting max power threshold

The screenshot shows the KIMANS metering system interface. The left sidebar is expanded to the 'Report' section, where 'Set Max Power Record' is highlighted with a red box. A red arrow points from this box to the 'Set Max Power Record' tab in the top navigation bar. The main content area displays a table with the following data:

Account No.	Meter No.	Max Power	Operator	Token	TID Date
1	47142971168	10000	AMR02	0159 8723 1941 4321 6508	2020/4/20 8:36:50

7.4 Login Record

Id	IP	Result	Date Time
AMR02	113.116.36.230	True	2020/5/29 17:46:24
AMR02	113.116.36.230	True	2020/5/29 17:29:57
AMR02	113.116.36.230	True	2020/5/29 17:00:57
AMR02	113.116.36.230	True	2020/5/29 16:19:37
AMR02	113.116.36.230	True	2020/5/29 15:16:27
AMR02	113.116.36.230	True	2020/5/29 14:32:18
amr02	113.116.36.230	True	2020/5/29 14:27:55
AMR02	113.116.36.230	True	2020/5/29 11:18:53
AMR02	113.116.36.230	True	2020/5/28 17:36:47
AMR02	183.42.50.101	True	2020/5/28 16:24:49
AMR02	183.42.50.101	True	2020/5/28 15:46:47
AMR02	183.42.50.101	True	2020/5/28 15:24:20
AMR02	113.116.36.230	True	2020/5/28 14:48:50
AMR02	113.116.36.230	True	2020/5/28 14:40:27
AMR02	113.116.36.230	True	2020/5/28 14:32:22
AMR02	113.116.36.230	False	2020/5/28 14:32:12
AMR02	223.104.64.154	True	2020/5/28 14:11:21
AMR02	113.116.36.230	True	2020/5/28 14:03:38
admin	113.116.36.230	True	2020/5/28 14:03:32
admin	113.116.36.230	True	2020/5/28 13:47:11

- Checking login information with Login IP, time, account, etc.

7.5 Daily Report

The concentrators will collect the record from the respective meters at 2:00 ~ 8:00 in the morning, including kWh consumption, credit, relay status, etc. You can check those data in the “Daily Report”

CU Name	Meter No.	Year	Month	Day	Total Units Counter	Current Credit Register	Consumption	Relay Status
ward desk	47000303967	2020	6	14	0.9	999.1	0	On
ward desk	47000303975	2020	6	14	0.87	999.13	0	On
ward desk	47000303983	2020	6	14	0	1000	0	On
ward desk	47000303991	2020	6	14	0	1000	0	On
ward desk	47000304007	2020	6	14	0	1000	0	On
ward desk	47000304015	2020	6	14	0	1000	0	On
ward desk	47000304023	2020	6	14	0	1000	0	On
ward desk	47000304031	2020	6	14	0	1000	0	On
ward desk	47000304049	2020	6	14	0.83	999.17	0	On
ward desk	47000304064	2020	6	14	0.82	999.18	0	On
ward desk	47000304072	2020	6	14	0.77	999.23	0	On
ward desk	47000304080	2020	6	14	0	1000	0	On
ward desk	47000304098	2020	6	14	0.76	999.24	0	On
ward desk	47000304106	2020	6	14	0.85	999.15	0	On
ward desk	47000304114	2020	6	14	1.66	998.34	0.03	On
ward desk	47000304122	2020	6	14	2.44	997.56	0.04	On
ward desk	47000304130	2020	6	14	0.65	999.35	0	On
ward desk	47000304148	2020	6	14	0.64	999.36	0	On
ward desk	47000304155	2020	6	14	0.82	999.18	0	On
ward desk	47000304163	2020	6	14	0	1000	0	On
ward desk	47000304171	2020	6	14	0	1000	0	On

- Inputting a meter ID in the search box, get daily report of specific meter, and you can export to excel.
- Inputting a date in the search box, format: 2020-6-1, you can get a daily report of specific date for all meters in the system, and you can export to excel.

7.6 Monthly Report

Check the monthly consumption data in the “Monthly Report”

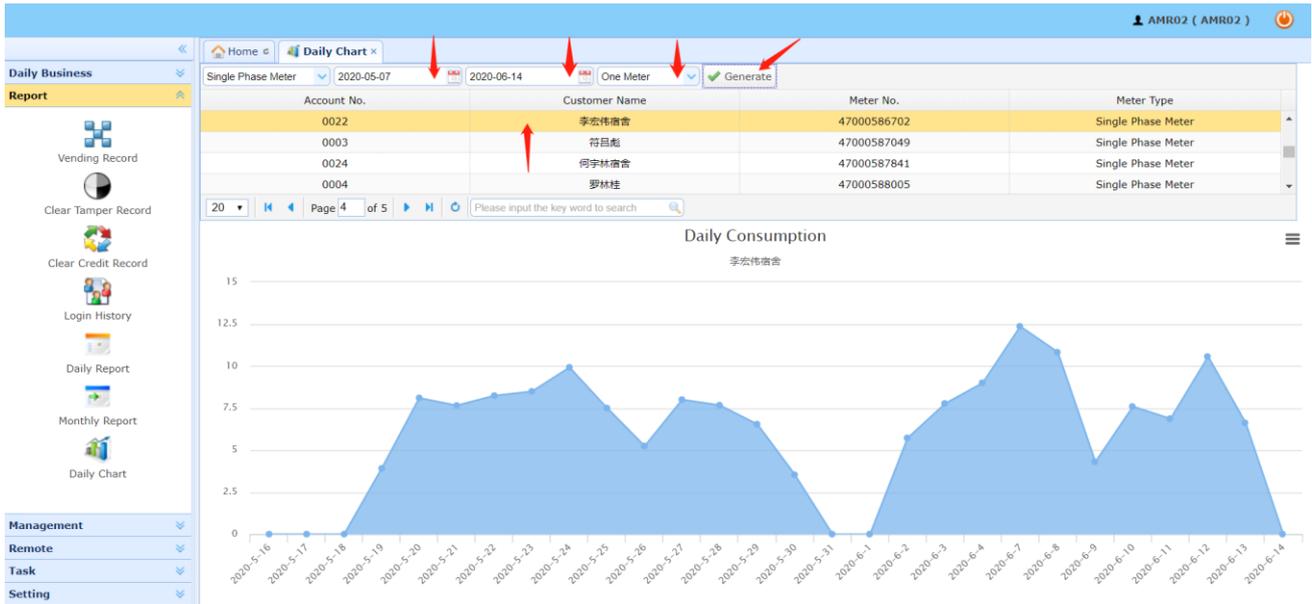
Account No.	Customer Name	Meter No.	Year	Month	Total Units Counter	Current Credit Register	Consumption
0003	符昌彪	47000587049	2020	5	6.61	993.39	5.49
0024	何宇林宿舍	47000587841	2020	5	155.47	844.53	N/A
0004	罗林桂	47000588005	2020	5	26.97	973.03	21.4
0005	王广宾	47000588278	2020	5	17.6	982.4	11.57
0006	胡光耀	47000588625	2020	5	13.89	986.11	10.16
0007	蒋滔	47000588641	2020	5	21.4	978.6	17.73
0001	Test	47001048280	2020	5	0	5	N/A
0008	罗辉荣	47001098541	2020	5	6.16	993.84	4.87
0009	王平	47001098558	2020	5	3.26	996.74	2.43
0010	陶海军	47001098566	2020	5	13.94	986.06	13.36
0011	胡扬	47001098574	2020	5	36.02	963.98	27.72
0012	郭思斌	47001098582	2020	5	121.57	878.43	98.17
0013	罗礼通	47001098590	2020	5	9.96	990.04	9.35
0014	李梅丽	47001098608	2020	5	12.91	987.09	10.24
0015	黄松林	47001098616	2020	5	9.59	990.41	7.71
0016	李宏伟	47001098624	2020	5	21.91	978.09	18.31
0017	陈伟锐	47001098632	2020	5	8.74	991.26	7.01
0018	王广	47001098640	2020	5	5.26	994.74	4.3
0019	秦天生	47001098665	2020	5	9.2	990.8	7.2
0020	曾庆荣	47001098673	2020	5	11.8	988.2	6.21
0026	胡光耀宿舍1	47001098715	2020	5	85.71	914.29	
0027	胡光耀宿舍2	47001098723	2020	5	85.56	918.44	

- Inputting a meter ID in the search box, get monthly report of specific meter, and you can export to excel.
- Inputting a date in the search box, format: 2020-6-1, you can get a monthly report of specific date for all meters in the system, and you can export to excel.

7.7 Daily Chart

You can generate a consumption chart in the “Daily Chart”

- Select the Start date
- Select the End date
- Select a meter ID or select “all meter”
- Click the “generate”



8. Remote & Task

8.1 Remote Reading & Reading Task

Select the meter type, account and data item, and then click the “Add Task”. You can check the task status in the “Task” – “Reading task”.

The screenshot shows the 'Remote Reading' interface. At the top, there are filters for 'Single Phase Meter' and 'Remote Reading'. Below the filters is a table with the following data:

Account No.	Customer Name	Meter No.	Meter Type	DCU No.	DCU Name
0001	Test	47000304510	Single Phase Meter	861800119	edward desk
0001	Test	47000304528	Single Phase Meter	861800119	edward desk
0025	黄松林宿舍	47000324005	Single Phase Meter	861800119	edward desk
0002	何宇林	47000324047	Single Phase Meter	861800119	edward desk
0001	Test	47000403916	Single Phase Meter	861900083	DCU
0023	王平宿舍	47000403940	Single Phase Meter	861800119	edward desk
0001	Test	47000403957	Single Phase Meter	861900083	DCU
0021	胡海宿舍	47000404385	Single Phase Meter	861800119	edward desk
0022	季宏伟宿舍	47000586702	Single Phase Meter	861800119	edward desk
0003	符吕彪	47000587049	Single Phase Meter	861800119	edward desk
0024	何宇林宿舍	47000587841	Single Phase Meter	861800119	edward desk
0004	罗林桂	47000588005	Single Phase Meter	861800119	edward desk
0005	王广宾	47000588278	Single Phase Meter	861800119	edward desk
0006	胡光辉	47000588625	Single Phase Meter	861800119	edward desk
0007	蒋滔	47000588641	Single Phase Meter	861800119	edward desk
0001	Test	47001048280	Single Phase Meter	861800119	edward desk
0008	罗辉宗	47001098541	Single Phase Meter	861800119	edward desk
0009	王平	47001098558	Single Phase Meter	861800119	edward desk
0010	周海翠	47001098566	Single Phase Meter	861800119	edward desk
0011	胡琦	47001098574	Single Phase Meter	861800119	edward desk

On the right side, there is a list of 'Data Item' options:

- Voltage
- Current
- Power
- Time
- Current Credit Register
- Cumulative kWh consumption
- Power consumption of last month
- Power consumption of last 2nd month
- Power consumption of last 3rd month
- Power consumption of last 4th month
- Power consumption of last 5th month
- Power consumption of last 6th month
- Power consumption of last 7th month
- Power consumption of last 8th month
- Power consumption of last 9th month
- Power consumption of last 10th month
- Power consumption of last 11th month
- Power consumption of last 12th month
- The number of cover meter open
- The last cover open time
- The last 2nd cover open time
- The last 3rd cover open time

At the bottom right, there is an 'Add Task' button. The interface also shows a search bar and a status 'Displaying 61 to 80 of 91 items'.

AMR02 (AMR02)

Home > Reading Task

Reload Export to Excel

Meter No.	Data Item	Create Date	End Date	Status	Receive Data
47000587841	Current Credit Register	2020/6/15 16:20:23	2020/6/15 16:21:03	Failure	
47000000019	Current	2020/6/15 16:13:06	2020/6/15 16:13:25	Success	0 A
47000000019	Voltage	2020/6/15 16:13:06	2020/6/15 16:13:20	Success	225.73 V
47000000001	Current	2020/6/15 16:13:06	2020/6/15 16:13:15	Success	0 A
47000000001	Voltage	2020/6/15 16:13:06	2020/6/15 16:13:11	Success	130.15 V
47000000019	Cumulative kWh consumption	2020/6/14 17:45:47	2020/6/14 17:46:11	Success	0 kWh
47000000019	Current Credit Register	2020/6/14 17:45:47	2020/6/14 17:46:06	Success	20 kWh,OFF
47000000019	Time	2020/6/14 17:45:47	2020/6/14 17:46:01	Success	10:45:56
47000000019	Date	2020/6/14 17:45:47	2020/6/14 17:45:57	Success	20-06-14 00
47000000019	Power	2020/6/14 17:45:47	2020/6/14 17:45:52	Success	0 kW
47000000001	Time	2020/6/14 17:44:46	2020/6/14 17:45:11	Success	09:45:08
47000000001	Date	2020/6/14 17:44:46	2020/6/14 17:45:06	Success	20-06-14 00
47000000001	Power	2020/6/14 17:44:46	2020/6/14 17:45:02	Success	0 kW
47000000001	Current	2020/6/14 17:44:46	2020/6/14 17:44:56	Success	0 A
47000000001	Voltage	2020/6/14 17:44:46	2020/6/14 17:44:51	Success	230.95 V
47000000019	Time	2020/6/14 12:41:04	2020/6/14 12:41:55	Success	05:41:50
47000000019	Date	2020/6/14 12:41:04	2020/6/14 12:41:51	Success	20-06-14 00
47000000019	Power	2020/6/14 12:41:04	2020/6/14 12:41:46	Success	0 kW
47000000019	Current	2020/6/14 12:41:04	2020/6/14 12:41:41	Success	0 A
47000000019	Voltage	2020/6/14 12:41:04	2020/6/14 12:41:36	Success	230.18 V

20 Page 1 of 53 Please input the key word to search Displaying 1 to 20 of 1041 items

8.2 Remote control & Control Task

Select the meter type, account and data item, and then click the “Add Task”. You can check the task status in the “Task” – “Control task”

AMR02 (AMR02) 84%

Home > Remote Control

Single Phase Meter

Account No.	Customer Name	Meter No.	Meter Type	DCU No.	DCU Name	Data Item
0001	Test	0150000721939	Single Phase Meter	861800119	edward desk	<input type="checkbox"/> Switch On
0001	Test	0150000721954	Single Phase Meter	861800119	edward desk	<input type="checkbox"/> Switch Off
0001	Test	0150000722499	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	0150000722630	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000000001	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000000019	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
<input checked="" type="checkbox"/>	0001	Test	47000000027	Single Phase Meter	861800119	edward desk
<input checked="" type="checkbox"/>	0001	Test	47000000035	Single Phase Meter	861800119	edward desk
0001	Test	47000302589	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302597	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302613	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302621	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302639	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302647	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302654	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302662	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000302712	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000303934	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000303942	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>
0001	Test	47000303959	Single Phase Meter	861800119	edward desk	<input type="checkbox"/>

20 Page 1 of 5 Please input the key word to search Displaying 1 to 20 of 95 items Add Task

Meter No.	Data Item	Create Date	End Date
0150000721954	Switch Off	2020/6/15 19:50:46	2020/6/15 19:51:49
0150000721954	Switch On	2020/6/15 19:50:24	2020/6/15 19:51:06

9. Setting

You can change the Login password and vend password here, And logout.

Current Password :

New Password :

Confirm Password :