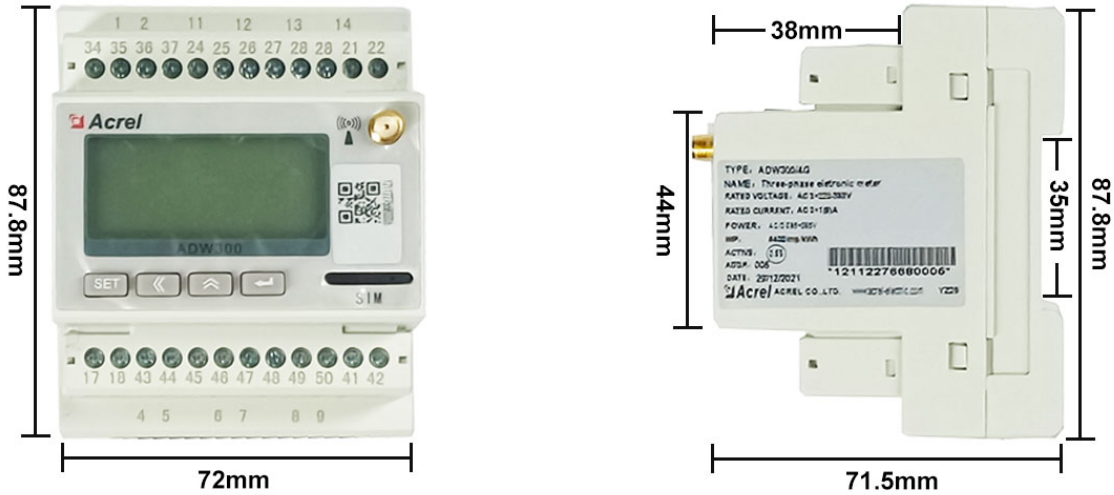
Author: Loki Elfin
E-mail: loki@acrel.cn
Website: www.acrel-electric.fr

## 0. Installation Dimension

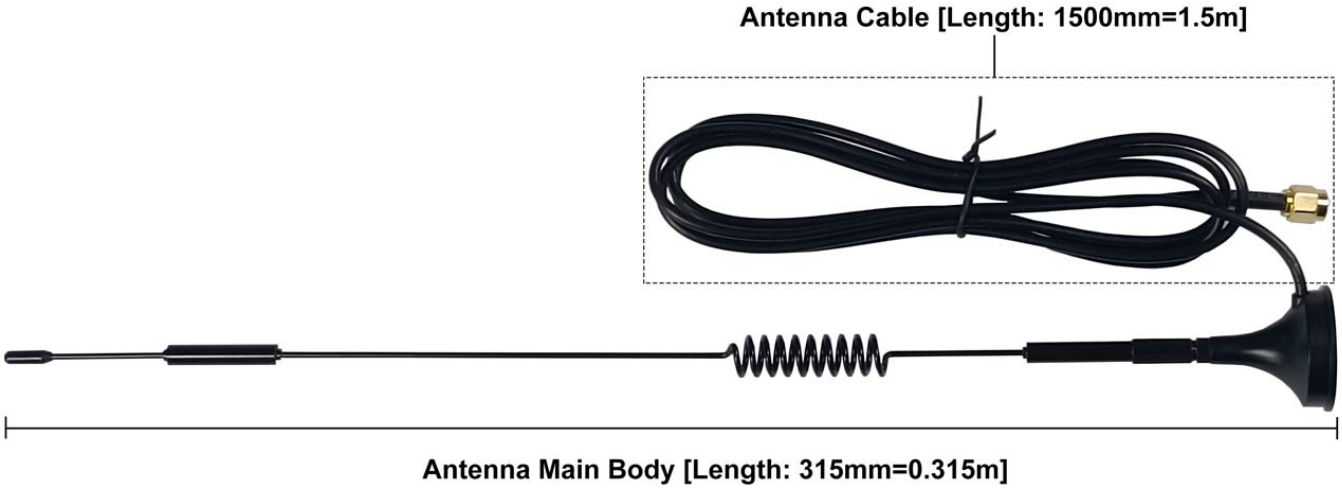
Dimension of necessary hardware including:

(1) ADW300-4GHW/C 3-phase 4G Wireless Energy Meter (Main Body+Terminal Block+Antenna)

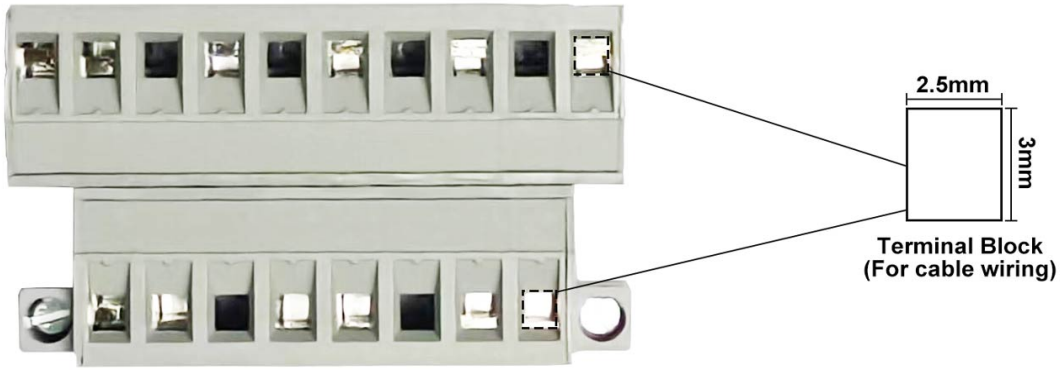
(2) AKH-0.66/K K-φ Series Current Transformer (Main Body + Output Cable)




(1) Dimension of Main Body of ADW300-4GHW/C




(1) Dimension of 4G Antenna of ADW300-4GHW/C




(1) Dimension of Terminal Block of ADW300-4GHW/C



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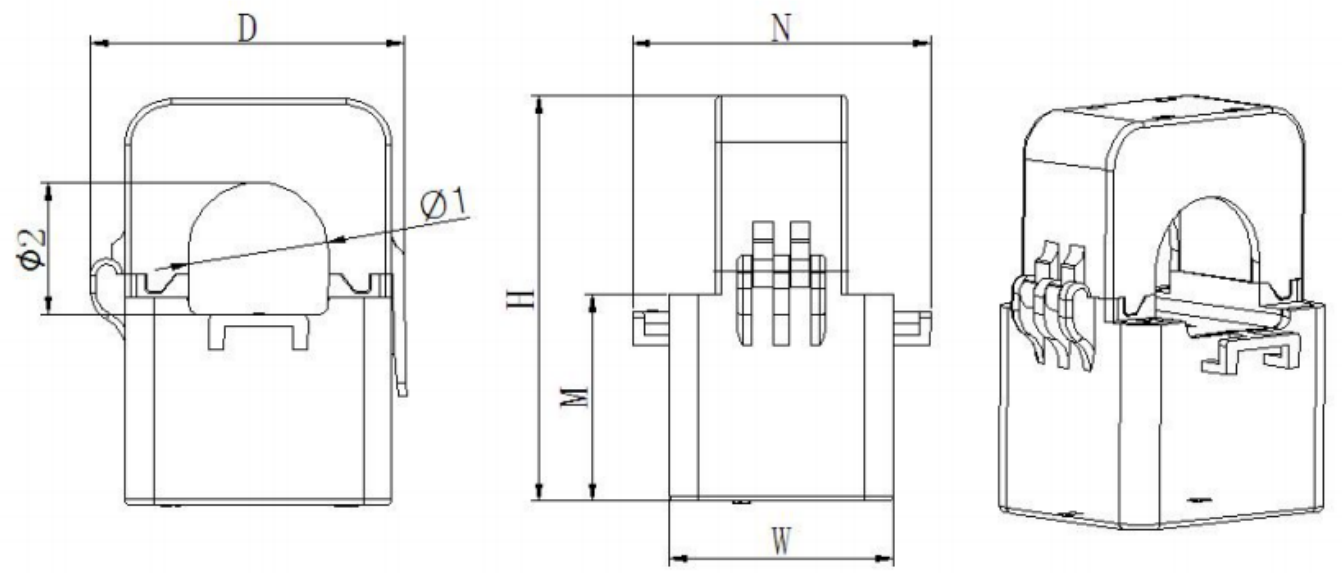
Author: Loki Elfin
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## 0. Installation Dimension

Dimension of necessary hardware including:

(1) ADW300-4GHW/C 3-phase 4G Wireless Energy Meter (Main Body+Terminal Block+Antenna)

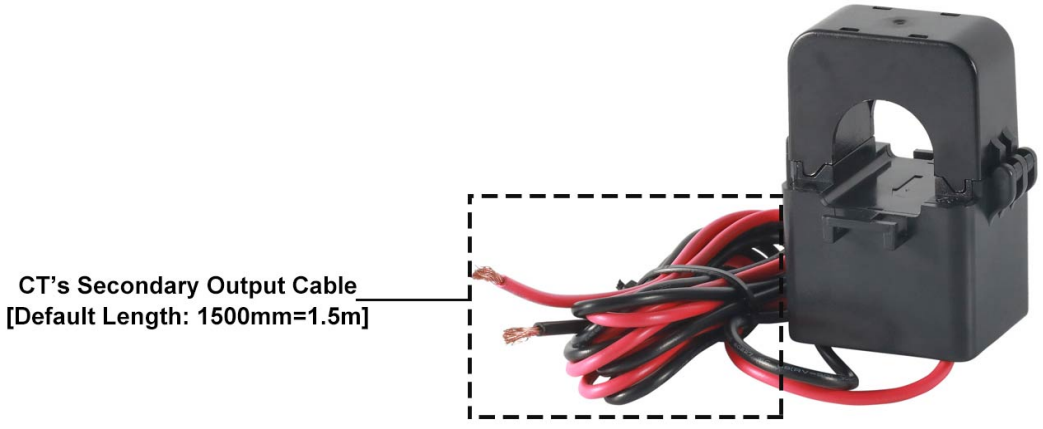
(2) AKH-0.66/K K-φ Series Current Transformer (Main Body + Output Cable)




Note: Primary current flow from P1 to P2. The black second wiring is S2,the red is S1.The outlet length is 1m ± 10cm.

| Size (mm) / Type | Outline size | | | | | Through size | | Tolerance |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | M | N | Φ1 | Φ2 | |
| K-Φ24 | 39 | 70.5 | 55 | 36 | 52 | 24.5 | 23 | ±1 |
| K-Φ36 | 42.5 | 81.5 | 67 | 40 | 56 | 33.5 | 35 | |
| K-Φ50 | 46.5 | 110 | 90 | 54 | 66.5 | 47 | 52 | |

(2) Dimension of Main Body of AKH-0.66/K K-φ Series




(2) Dimension of Secondary Output Cable of AKH-0.66/K K-φ Series



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## 1. Wiring Illustration

Only 3 parts of wiring are necessary for ADW300-4GHW/C

(1) Auxiliary Power Supply: For power supply of ADW300-4GHW/C, use PIN 1,2 on ADW300-4GHW/C, and be aware the volage level of auxiliary power supply must be within range of 85~265Vac/Vdc.

(2) Voltage Input: Use PIN 11, 12, 13, 14 on ADW300-4GHW/C for 3-phase voltage signal input. (Noted that we need to short PIN 12 and PIN 14 in 3P3W wiring)

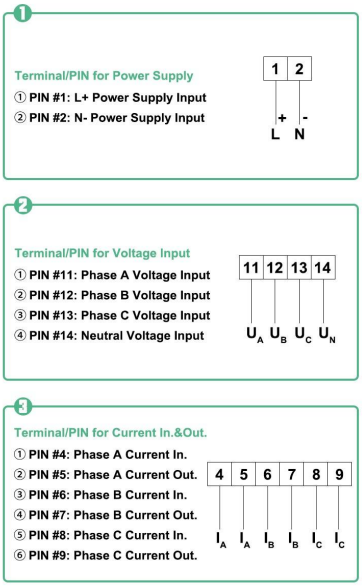
(3) Current input: Use PIN 4,5,8,9 on ADW300-WF/C paired with AKH-0.66/K K-φ Series CTs for current wiring (PIN 4, 8 on ADW300-4GHW/C connected to red wire of 2 CTs (also S1 Side) respectively for 3-phase current input, PIN 5, 9 on ADW300-4GHW/C connected to black wire of 2 CTs (also S2 side) respectively for 3-phase current output)

Noted #1: Make sure the antenna of ADW300-4GHW was covered by 4G stable signal and inserted with 4G sim card before powered up. (And if use special APN 4G sim card instead of normal 4G sim card, need APN setting in ADW300)

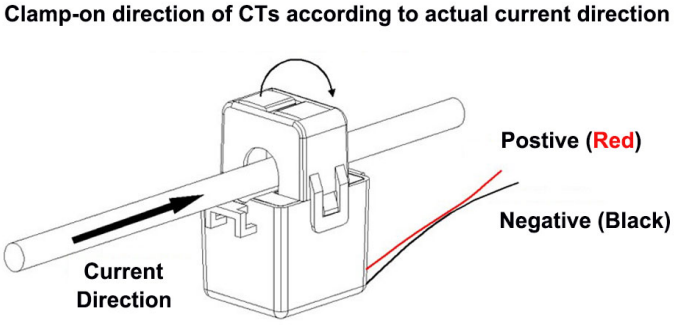
Noted #2: The installed direction (P1 to P2) of CTs must be according to the actual current direction.

Noted #3: ADW300 series with only 3x1(6)A current input specs could be grouded.

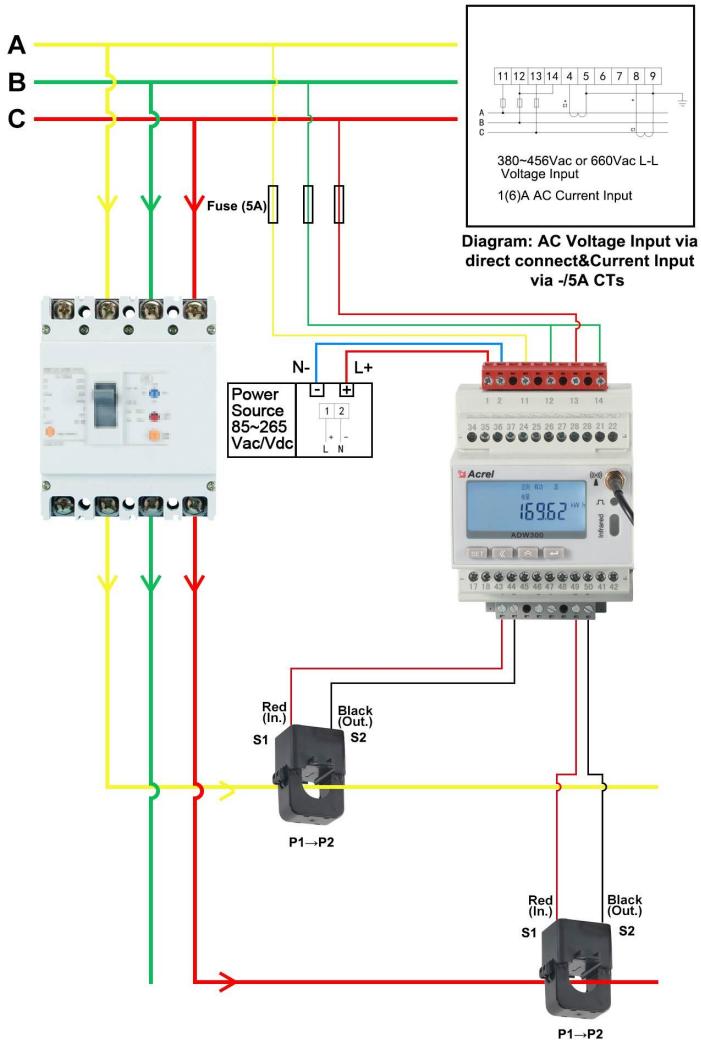



PIN Overview of ADW300




Noted for Clamp-on direction of CTs




Current&Voltage&Power Supply Wiring of ADW300



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## 2. System Operation

After correctly installing, wiring and powering up the Acrel devices, there are 4 steps to bind these devices with Acrel System before formally using the system:

(1) Step 1 - Download IoT EMS APP on your Mobile Phone;

(2) Step 2 - Register and login your own account.

(3) Step 3 - Create a new Project

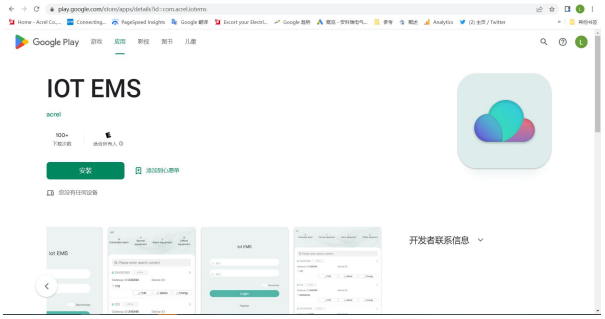
(4) Step 4 - Add devices to your new Project (Recommend to add by using APP)

Extra Noted: Acrel IoT EMS APP (for Mobile) and IoT EMS WEB (for PC) share the same data and account, once add the devices using APP, we can check the data on either computer using IoT EMS WEB or on mobile phone using IoT EMS APP.

(1) Download IoT EMS APP:

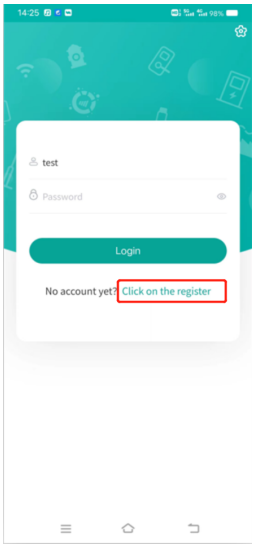
- Download Link (Android): https://play.google.com/store/apps/details?id=com.acrel.iotems
- Download (IOS): Search IoT EMS

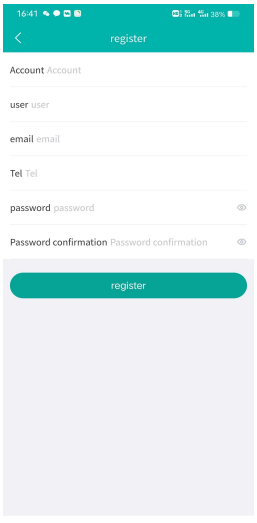


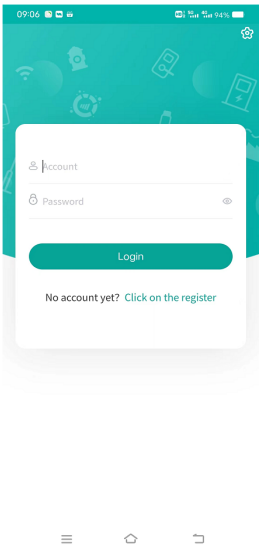




(2) Register your own Account:

- Click on register
- Enter related information for registering account
- Login with your new account by entering "Account" and " Password" you just set






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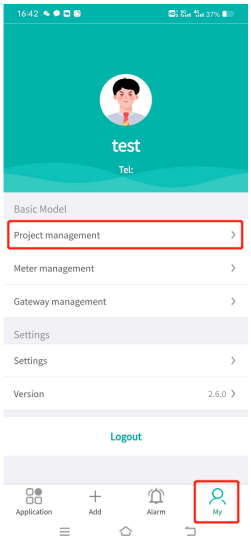
(3) Step 3 - Create a new Project

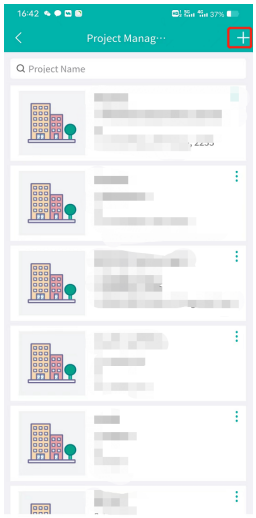
(4) Step 4 - Add devices to your new Project (Recommend to add by using APP)

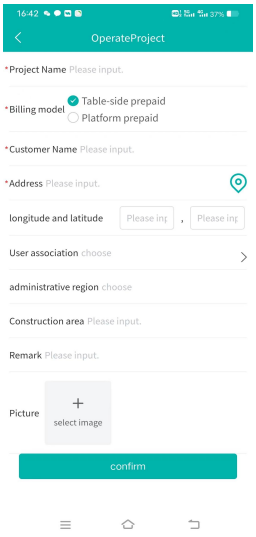
Extra Noted: Acrel IoT EMS APP (for Mobile) and IoT EMS WEB (for PC) Share the same data and account, once add the devices using APP, we can check the data on IoT EMS WEB on PC.

(3) Creat a new Project:

- "My" → "Project management"
- Click "+" icon on the right top
- Choose "Platform prepaid" and fill in other information marked by *

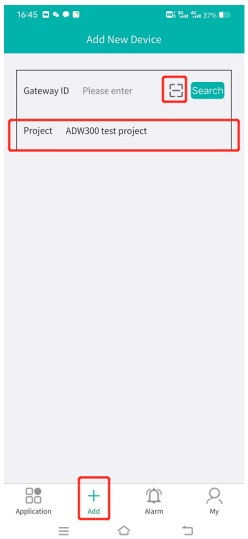


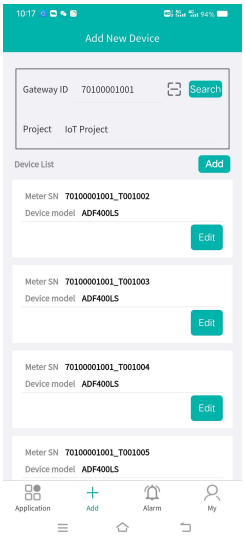

(2) Add Devices to Project:

- Enter "Add" interface
- Select "Project"
- Click "QR Code" scanning icon - Scan the QR Code on ADW300
- Automatically recognize the devices type and SN code












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## 3. Acrel IoT Energy Monitoring System (Partail Introduction)

Acrel IoT Energy Monitoring System could be access in 2 different ways:

(1) Access through WEB on your computer.

Access port: https://iot.acrel-eem.com/

(2) Access through APP on your mobile phone

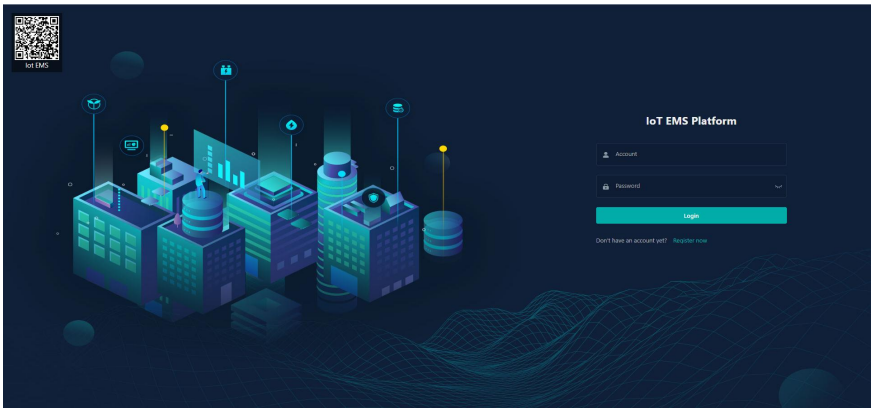
Download Link: https://play.google.com/store/apps/details?id=com.acrel.iotems

(1) WEB Accesss (Computer):

Access Port: https://iot.acrel-eem.com/

Account Name: (Enter yours)

Account Password: (Enter yours)



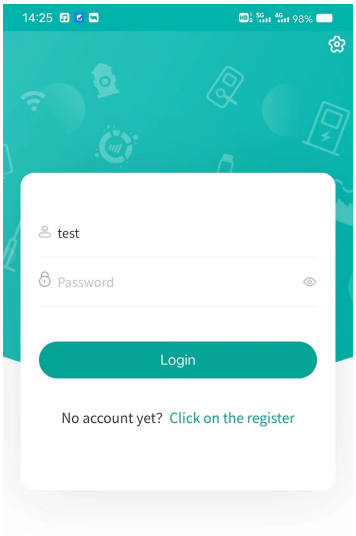

(2) APP Accesss (Mobile):

Download Link: https://play.google.com/store/apps/details?id=com.acrel.iotems

Account Name: (Enter yours)

Account Password: (Enter yours)






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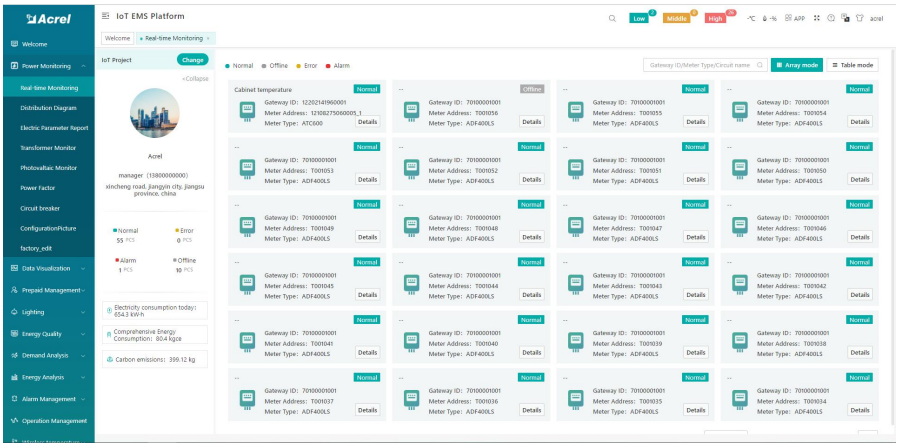
Author: Loki Elfin
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## 3. Acrel IoT Energy Monitoring System (Partail Introduction)

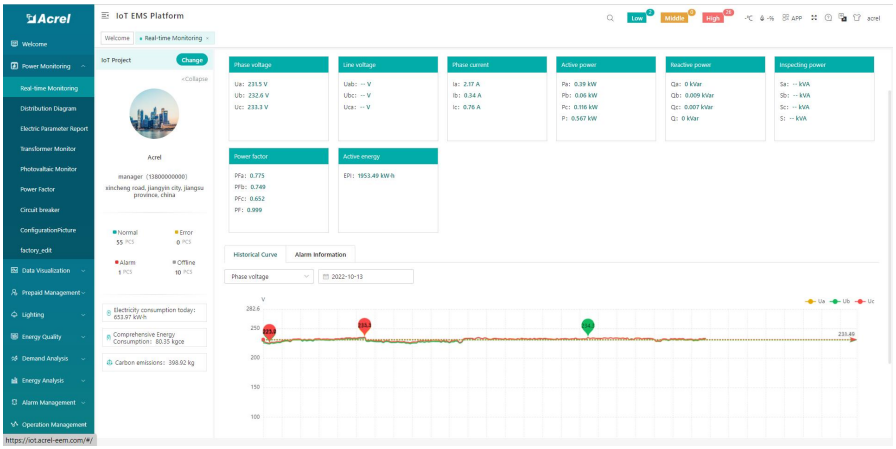
Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

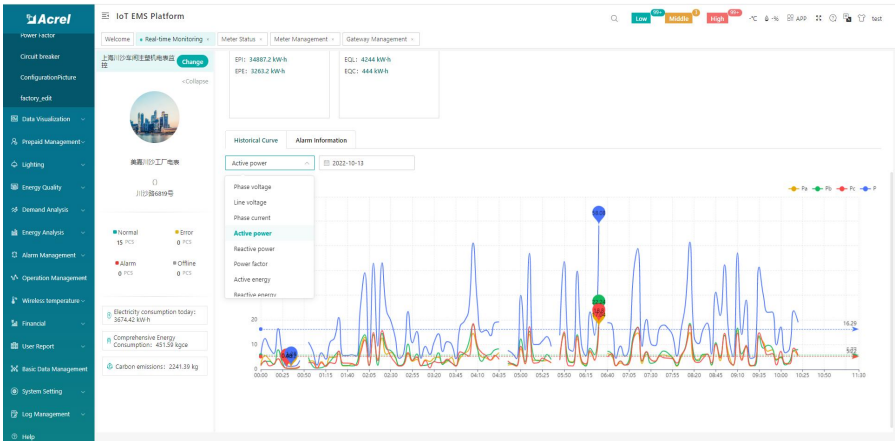
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.




(2) History Curve: Showing the daily history data curve of all the data that could be collected and upload by energy meter or other basic metering devices.




(2) History Curve: By selecting the items of "data" and "electricity parameter", platform can show the history curve of different data and date.






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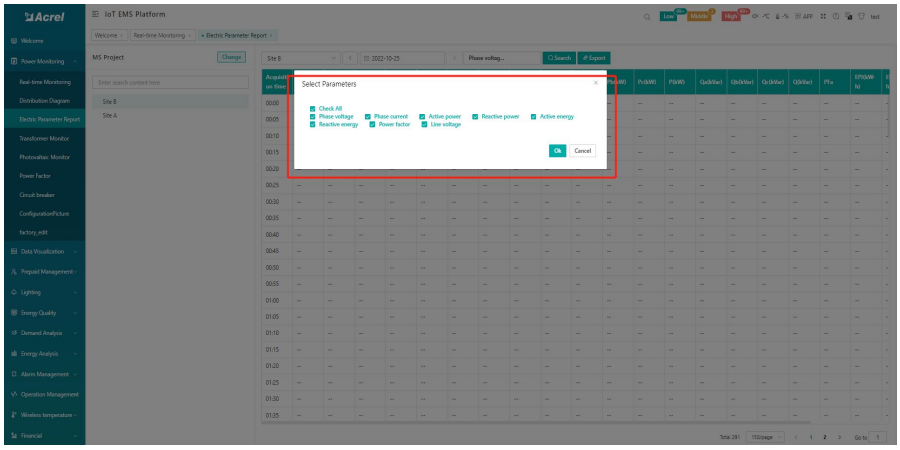
Author: Loki Elfin
E-mail: loki@acrel.cn
Website: www.acrel-electric.fr

## 6. Acrel IoT Energy Monitoring System (Partail Introduction)

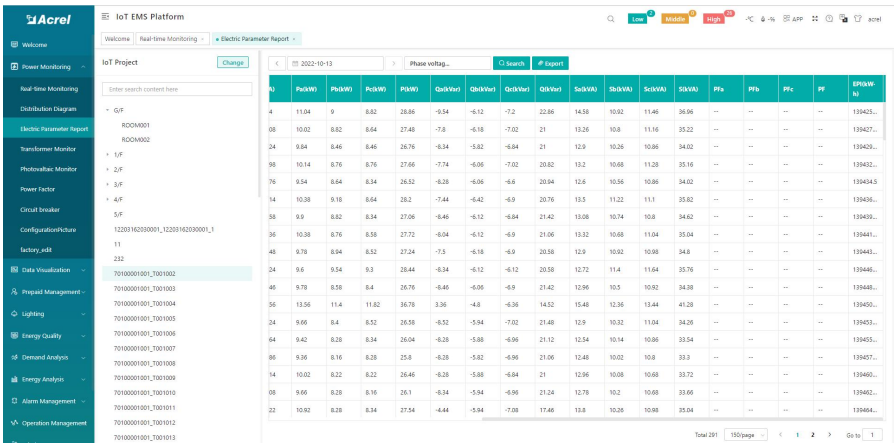
Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

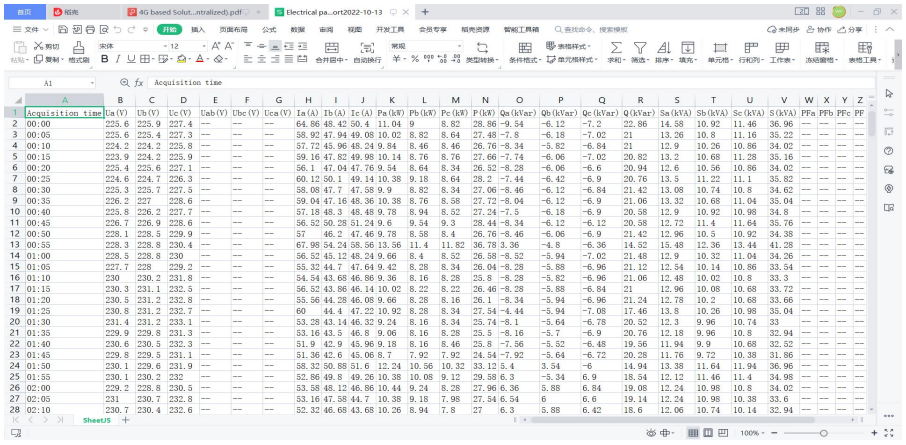
(3) Electricity Parameters Report: Select the "electricity parameters" that you want to show in this report .




(3) Electricity Parameters Report: All the electricity parameters that could be collected by certain energy meter will showed as a report here.




(3) Electricity Parameters Report: Report on platform could be exported in "Excel" format to your computer for a brief storage when accessing the IoT EMS WEB platform.





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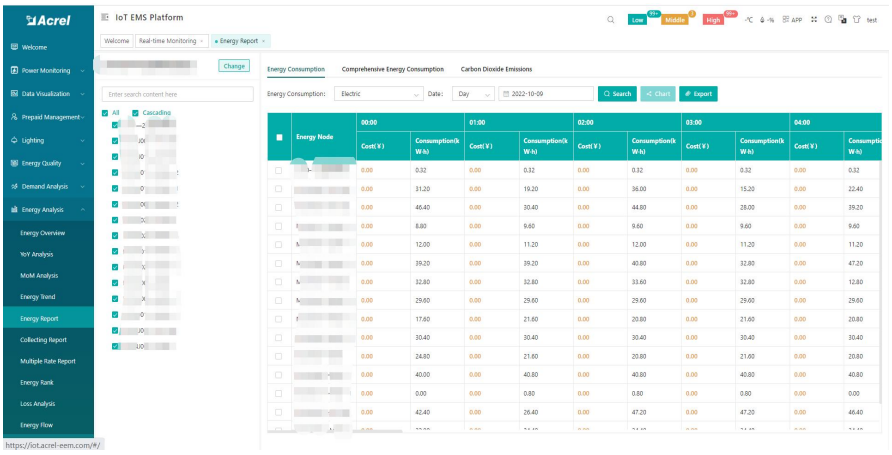
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## 3. Acrel IoT Energy Monitoring System (Partail Introduction)

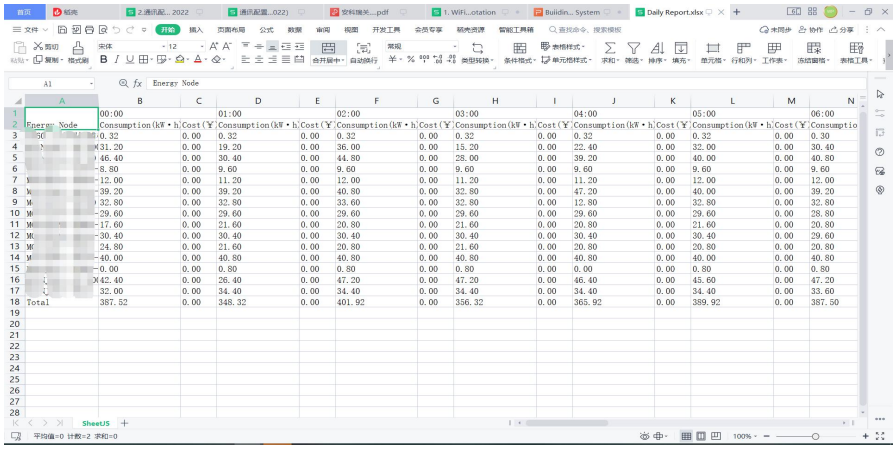
Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

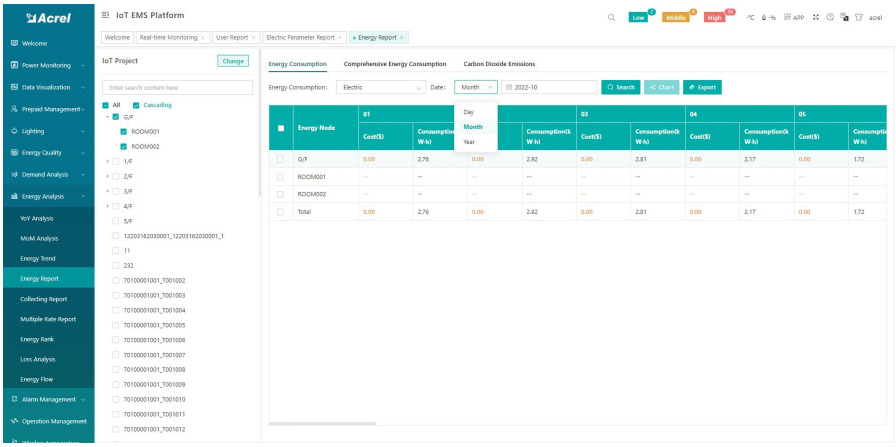
(4) Energy Report (Daily): This Interface show the daily energy consumtion report (calculated by forward active energy)




(4) Energy Report (Daily): This daily energy report could be also export to computer in "Excel" format




(4) Energy Report (Monthly& Yearly): Same as daily energy report, monthly and yearly energy report could be also checked on platform and exported in "Excel" format.






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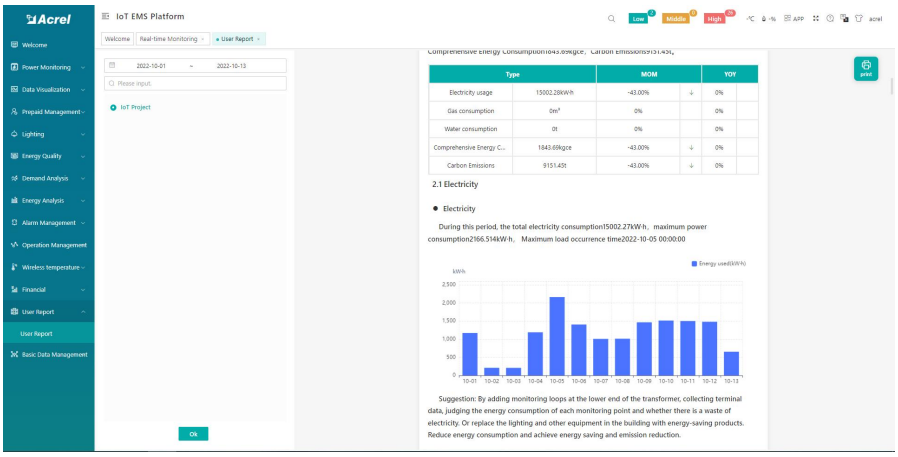
Author: Loki Elfin
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## 3. Acrel IoT Energy Monitoring System (Partail Introduction)

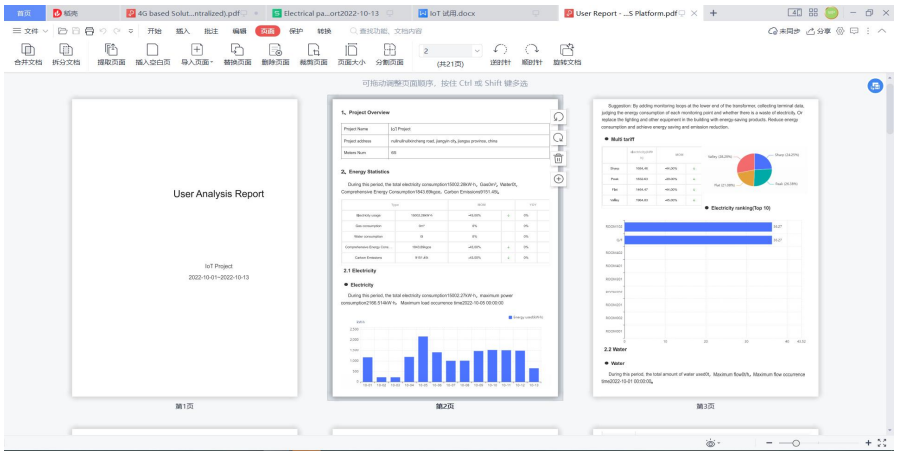
Main Function of WEB side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Consumption Report (Daily, Monthly, Yearly) (5) User Report

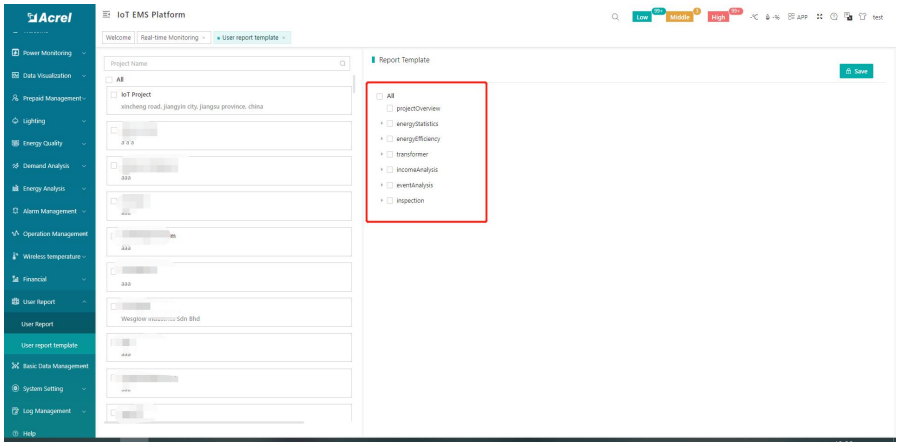
(5) User Report: A comprehensive user report including project overview, energy report, energy analysis and etc could be check on platform




(5) User Report: User report could be exported in "PDF" format into your PC for convenient check and storage.




(5) User Report: User report support template customization in buy-out service of Acrel IoT Energy Monitoirng System.






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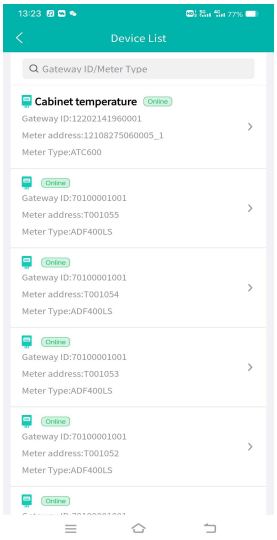
Author: Loki Elfin
E-mail: loki@acrel.cn
Website: www.acrel-electric.fr

## 3. Acrel IoT Energy Monitoring System (Partail Introduction)

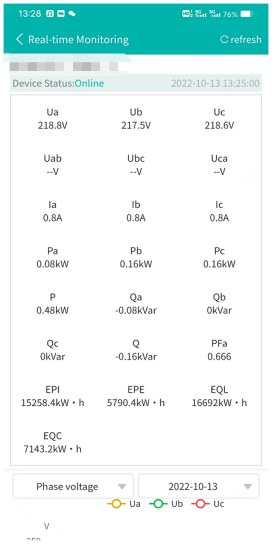
Main Function of APP side System:

(1) Devices List (2) History Curve (3) Electricity Parameters Report (4) Energy Trend (5) Energy Consumption Report (Daily, Monthly, Yearly)

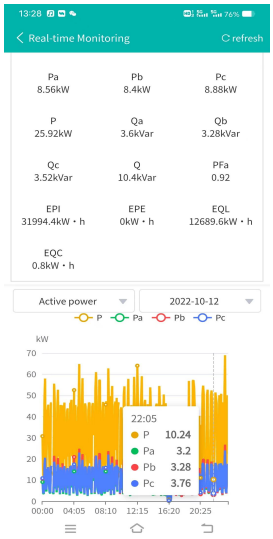
Noted: Since APP side and WEB side of Acrel IoT Energy Monitoring System share the same data, normally recommend our user to add the devices to their account using APP and check the data using WEB platform.



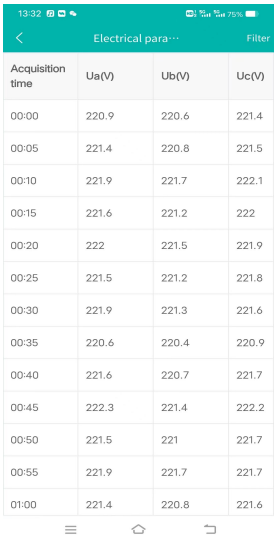

(1) Device List



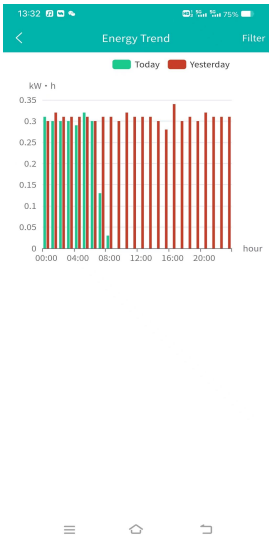

(2) History Curve




(2) History Curve




(3) Parameter Report




(4) Energy Trend




(5) Energy Report



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