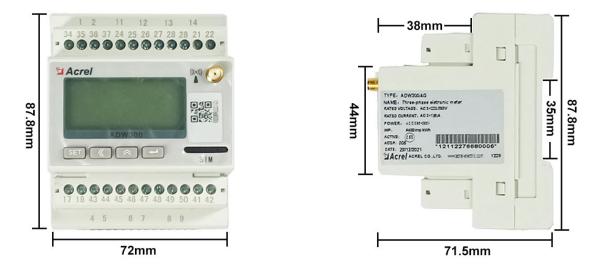


1. Installation Dimension

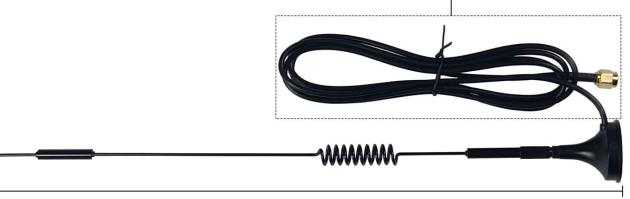
Dimension of necessary hardware including:

- (1) ADW300-4GHW/C 3-phase 4G Wireless Energy Meter (Main Body+Terminal Block+Antenna)
- (2) AKH-0.66/K K- Series Current Transformer (Main Body + Output Cable)



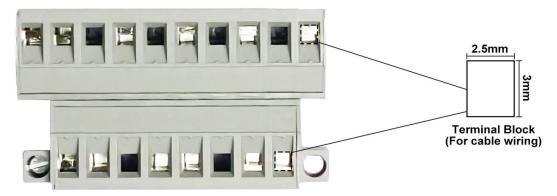
(1) Dimension of Main Body of ADW300-4GHW/C





Antenna Main Body [Length: 315mm=0.315m]

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



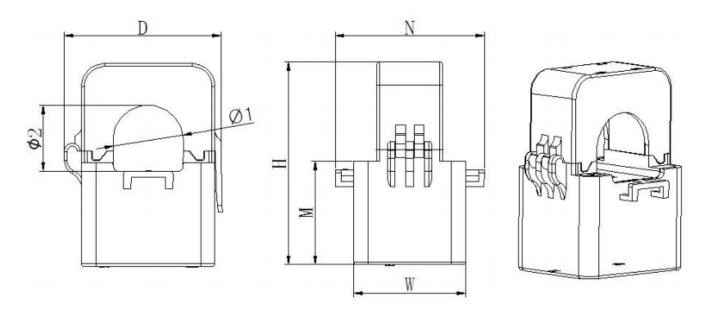
(1) Dimension of Terminal Block of ADW300-4GHW/C



1. Installation Dimension

Dimension of necessary hardware including:

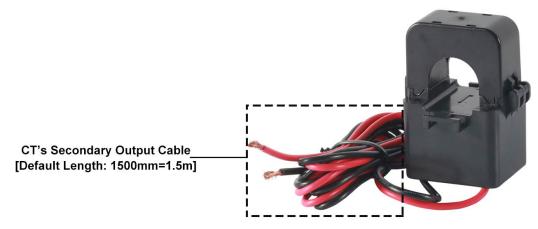
- (1) ADW300-4GHW/C 3-phase 4G Wireless Energy Meter (Main Body+Terminal Block+Antenna)
- (2) AKH-0.66/K K- Series Current Transformer (Main Body + Output Cable)



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

Size (mm)		0	utline siz	æ		Throug	gh size	Tolerance
Туре	W	Н	D	М	N	Φ1	Φ2	Toterance
К-Ф24	39	70. 5	55	36	52	24. 5	23	
К-Ф36	42. 5	81.5	67	40	56	33. 5	35	± 1
К-Ф50	46. 5	110	90	54	66. 5	47	52	

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



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



2. Wiring Illustration

After installing the devices, 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/

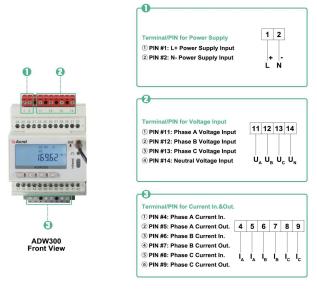
C, and be aware the volage level of auxiliary power supply must be within range of 85~265Vac L-N.

(2) Voltage Input: Use PIN 11, 12, 13, 14 on ADW300-4GHW/C for 3-phase voltage signal input

(3) Current input: Use PIN 4,5,6,7,8,9 on ADW300-WF/C paired with AKH-0.66/K K- Series CTs for current wiring (PIN 4, 6, 8 on ADW300-4GHW/C connected to red wire of 3 CTs respectively for 3-phase current input, PIN 5, 7, 9 on ADW300-4GHW/C connected to black wire of 3 CTs respectively for 3-phase current output)

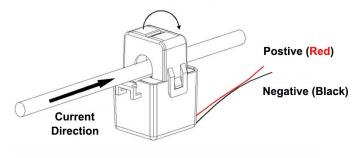
Noted #1: Make sure the antenna of ADW300-4GHW was covered by 4G stable signal and inserted with 4G sim card before powered up. (And if use special APN 4G sim card instead of normal 4G sim card, need APN setting in ADW300)

Noted #2: The clamp-on direction of CTs must be according to the actual current direction. Noted #3: CT's output cable must be connected to energy meter before clamping on monitoring cable

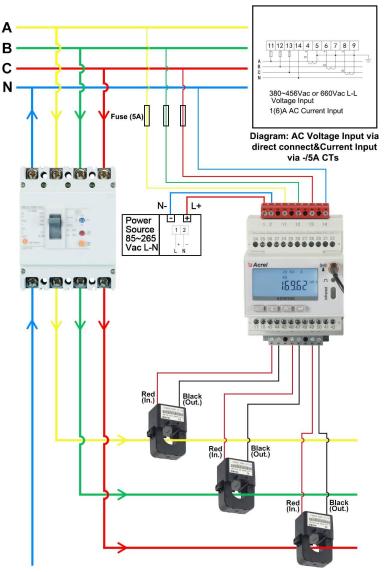


PIN Overview of ADW300

Clamp-on direction of CTs according to actual current direction



Noted for Clamp-on direction of CTs



Current&Voltage&Power Supply Wiring of ADW300

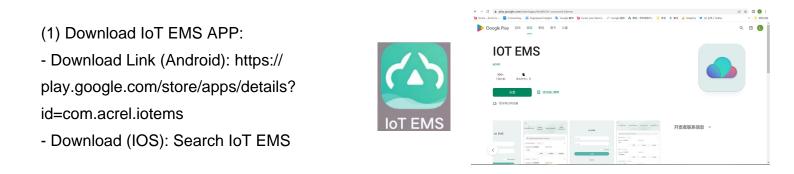


3. System Operation

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.

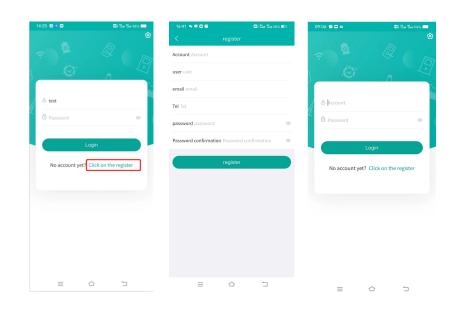


(2) Register your own Account:

- Click on register

- Enter related information for registering account

- Login with your new account by entering "Account" and " Password" you just set





3. 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)

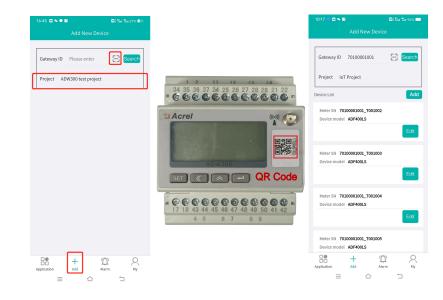
Extra Noted: Acrel IoT EMS APP (for Mobile) and IoT EMS WEB (for PC) Share the same data and account, once add the devices using APP, we can check the data on IoT EMS WEB on PC.

- (3) Creat a new Project:
- "My" "Project management"
- Click "+" icon on the right top

- Choose "Platform prepaid" and fill in other information marked by *

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- (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





4. 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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	L	ogin
	No account yet?	Click on the register

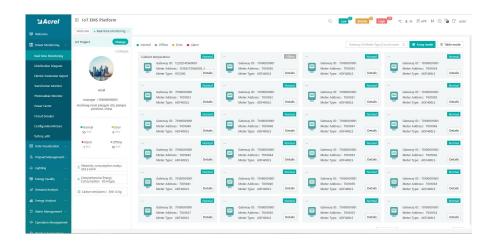


4. Acrel IoT Energy Monitoring System (Partail Introduction)

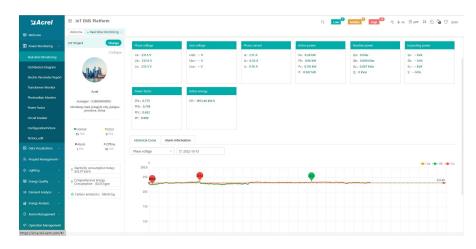
Main Function of WEB side System:

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

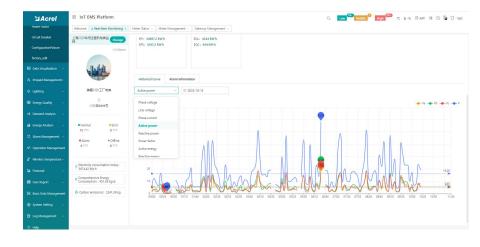
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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.





4. 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

MS Project	Change	Site B			m 202	10-25		> Ph	ana voltag		C Search	Ø bpo	rt								
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(3) Electricity Parameters Report: All the electricity parameters that could be collected by certain energy meter will showed as a report here.

Sa Acrel	IoT EMS Platform												Q .	··· ² M	ddle 0	High 23	-< 4-	6 88 APP	H (2)	🖥 🕄 acre
9 Welcome	Welcome Real-time Monitoring +	Electric Parameter	r Report -																	
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Electric Parameter Report	ROOM001		08	10.02	8.82	8.64	27,48	-7.8	-6.18	-7.02	21	13.26	10.8	11.16	35.22					139427
Transformer Monitor	ROOM002		24	9.84	8.46	8.46	26.76	-8.34	-5.82	-6.84	21	12.9	10.26	10.86	34.02					139429
	> 1/F		98	10.14	8.76	8.76	27.66	-7.74	-6.05	-7.02	20.82	13.2	10.68	11,28	35.16					139432
Photovaltaic Monitor	> 2/F > 3/F		76	9.54	8.64	8.34	26.52	-8.28	-6.05	-6.6	20.94	12.6	10.56	10.85	34.02					139434.5
Power Factor	> 3/F			10.38	9.18	8.64	28.2	-7.44	-6.42	-6.9	20.76	13.5	11.22	11.1	35.82					139436
Sircuit breaker	5/F			9.9	8.82	8.34	27.06	-8.46	-6.12	-6.84	21.42	13.08	10.74	10.8	34.62					139439
IonfigurationPicture	12203162030001_12203162030001			10.38	8.76	8.58	27.72	-8.04	-6.12	-6.9	21.06	13.32	10.68	11.04	35.04					139441
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	232			9.78	8.94	8.52	27.24	-7.5	~6.18	-6.9	20.58	12.9	10.92	10.98	34.8	~				139443
Data Visualization 🗸 🗸	70100001001_T001002		24	9.6	9.54	9.3	28.44	-8.34	-6.12	-6.12	20.58	12.72	11.4	11.64	35.76					139445
Prepaid Management ~	70100001001_T001003		45	9.78	8.58	8.4	26.76	-8.46	-6.05	-6.9	21.42	12.96	10.5	10.92	34.38	-	-	-		139448
Lighting ~	70100001001_T001004		56	13.56	11.4	11.82	36.78	3.36	-4.8	-6.36	14.52	15.48	12.36	13.44	41.28				~	139450
ugning v	70100001001_T001005		24	9.66	8.4	8.52	26.58	-8.52	-5.94	-7.02	21.48	12.9	10.32	11.04	34.25					139453
Energy Quality 🚽	70100001001_T001005		64	9.42	8.28	8.34	26.04	-8.28	-5.88	-6.95	21.12	12.54	10.14	10.85	33.54	-				139455
Demand Analysis 🗠	70100001001_T001007 70100001001_T001008		85	9.36	8.16	8.28	25.8	-8.28	-5.82	-6.95	21.06	12.48	10.02	10.8	33.3					139457
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nogi magai	70100001001_T001010		08	9.66	8.28	8.16	26.1	-8.34	-5.94	-6.95	21.24	12.78	10.2	10.68	33.66					139462
Alarm Management 🖂	70100001001_T001011			10.92	8.28	8.34	27.54	-4.44	-5.94	-7.01	17.46	12.0	10.26	10.98	25.04					129464
Operation Management	70100001001_T001012		-	- and						1.000										
	70100001001 T001013														Tota	1291 15	0/page v	< 1	2 >	Go to 1

(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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7	01:15	230.3	231.1	232.5				56.52	43.86	46, 14	10.02	8.22	8,22	26,46	-8.28	-5.88	-6.84	21	12.96	10.08	10.68	33.72			
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9	01:25	230, 8	231.2	232.7				60	44.4	47.22	10.92	8,28	8.34	27.54	-4.44	-5.94	-7.08	17.46	13.8	10.26	10.98	35.04			
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4. 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): ThisInterface show the daily energyconsumtion report (calculated byforward active energy)

Sa Acrel	IE IoT EMS Platform						Q	Low Midd	lle High	·~ 6-% 8	APP ដ 🕚	🖫 😯 test
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			0.00	8.00	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9.60
		0 N	0.00	12.00	0.00	11.20	0.00	12.00	0.00	11.20	0.00	11.20
	🖬 (🛛 🗙			39.20	0.00	39.20	0.00	40.80	0.00	32.90	0.00	47.20
Energy Trend			0.00	32.80	0.00	32.80 29.60	0.00	33.60	0.00	32.00	0.00	12.80
			0.00	17.60	0.00	23.60	0.00	20.80	0.00	21.60	0.00	20.80
Collecting Report	0 10		0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40
Multiple Rate Report	2 00	0	0.00	24.90	0.00	21.60	0.00	20.80	0.00	21.00	0.00	20.80
Energy Rank		0	0.00	40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.80
Loss Analysis			0.00	0.00	0.00	0.80	0.00	0.80	0.00	0.80	0.00	0.00
Loss Anarysis Energy Row			0.00	42,40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40
				10.00		51.15		34.93		11.45		11.75
https://iot.acrel-eem.com/	(#)											

(4) Energy Report (Daily): This dailyenergy report could be also exportto computer in "Excel" format

首页	🕑 植夾	5 2.通讯配	2022 🔍	☑ 通讯配置…022) 🖵	🕑 安科瑞美pdf 📿	1	WiFiotation 🖓 🔹	P Buildin	System 🖓 🔹 🧧	Daily Report	xlsx ♀ × +	6	88 😊 🗕	0
文件 〜	828	Q50 - 0	第 損入	页面布局 公式	·神 邪:坂	印 視園 开发工具	会员专家	杨夫资源 智能工具	第 Q 重	2命令、提家模板		0	3 未同未 6	计特性 凸分享	: /
	M - MICRI	B/⊻⊞∘⊕	- <u>0</u> - <u>A</u> -	A* A* ▼ + = = & = = = =		田 [元] 常規 展中・自动旅行 羊・	% 003 +0		野 ★相 t- ば 単元		A↓ ↓ №№- 445	□ ■ ■ □ ■ □ ■ □ ■ □ ■ □ ■ □ ■ □ ■ □ ■ □	野 I作表・ 3		
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-	А	-	C .		E		G			J	N		IVI		
Energ		00:00	· Marrie (3	01:00	. Norma	02:00 Y Consumption(kW •	Marrie (3	03:00	10	04:00	Victor (N	05:00	Vere C	06:00	-
	Node		• h,Cost(1	0.32	• h.Cost(0.00	1 Consumption(kW • 0.32	0,00	0.32	0.00	0.32	0.00	0.32	0.00	r.Consumptio 0.30	15
			0.00	19.20	0.00	36.00	0.00	15.20	0.00	22, 40	0.00	32.00	0.00	30, 40	
		46.40	0.00	30.40	0.00	44.80	0.00	28.00	0.00	39.20	0.00	40.00	0.00	40.80	G
		-8.80	0.00	9.60	0.00	9.60	0.00	9.60	0.00	9,60	0.00	9,60	0.00	9,60	6
5		-12.00	0.00	11.20	0.00	12.00	0.00	11.20	0.00	11.20	0.00	12.00	0.00	12.00	D
ĥ.		- 39. 20	0.00	39.20	0.00	40.80	0.00	32.80	0.00	47.20	0.00	40.00	0.00	39.20	G
M-		32.80	0.00	32.80	0.00	33.60	0.00	32.80	0.00	12.80	0.00	32.80	0.00	32.80	
M		-29.60	0.00	29.60	0,00	29.60	0.00	29.60	0.00	29.60	0.00	29.60	0,00	28,80	
M	10.000	- 17.60	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	
ж		- 30. 40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	30.40	0.00	29.60	
ж		24.80	0.00	21.60	0.00	20.80	0.00	21.60	0.00	20.80	0.00	20.80	0.00	20.80	
М		-40.00	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.80	0.00	40.00	0.00	40.80	
1		- 0. 00	0.00	0.80	0.00	0.80	0.00	0.80	0.00	0.00	0.00	0.80	0.00	0.80	
		0 42. 40	0.00	26.40	0.00	47.20	0.00	47.20	0.00	46.40	0.00	45.60	0.00	47.20	
÷.		32.00	0.00	34.40	0.00	34.40	0.00	34.40	0.00	34.40	0.00	34.40	0.00	33.60	
Total		387.52	0.00	348.32	0.00	401.92	0.00	356.32	0.00	365.92	0.00	389.92	0.00	387.50	
	> She	eus +						1.00							
	1=0 11-112=2									-	оф- m	100% -		-0	+ 23

(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.

업Acrel	IoT EMS Platform							Q	Low Niddl	e High	-c è-s 89	APP 11 () [🕯 😯 acrat
B Welcome	Welcome Real-time Monitoring × User Report ×	Electric I	Parameter Report -	Energy Report ×									
Power Monitoring	IoT Project Change	Energy	Consumption Co	mprehensive Energ	y Consumption	Carbon Dicoide Em	nissions						
🖽 Data Visualization 🖂	Enter search content here	Energy	Consumption: Ele	thric	U Date:	Month 🗠 🗏 a	2022-10	Ci Sea	rch < Chart	# Export			
& Prepaid Management ~	All 🛃 Cascading			01		Day		03		04		05	
⇔ Lighting ~	RCOM001		Energy Node	Cost(\$)	Consumption W-h)	Month	Consumption(k	Cost(\$)	Consumption(k W-b)		Consumption(k		Consumptio W-b)
📾 Energy Quality 🗸 🗸	ROOM002		G/F	0.00	2.76	142ar	2.92	0.00	2.01	0.00	2.17	0.00	1.72
55 Demand Analysis ~	 1/F 2/F 		RDOM001		-270	0.00		0.00					
	· □ 2/*		RDOM002										
🛍 Energy Analysis 🗠	* 🔲 4/F		Total	0.00	2.76	0.00	2.92	0.00	2.81	0.00	2.17	0.00	1.72
YoY Analysis	□ 5/#		IDGAI	0.00	276	0.00	2.92	0.00	2.01	0.00	2.0	0.00	1.72
MoM Analysis	12203162030001_12203162030001_1												
Energy Trend	. 11												
Energy Report	232 70100001001_7001002												
	70100001001_1001003												
Collecting Report	70100001001_T001004												
Multiple Rate Report	70100001001_T001005												
Energy Rank	70100001001_T001005												
Loss Analysis	70100001001_T001007												
Energy Flow	70100001001_T001008												
C Alarm Management ~	 70100001001_T001009 70100001001_T001010 												
	70100001001_1001010												
M Operation Management	70100001001_1001012												

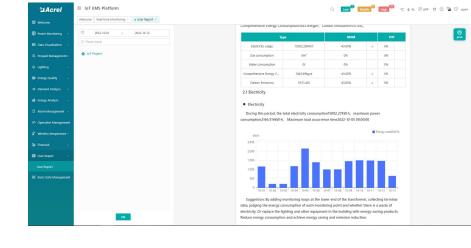


4. Acrel IoT Energy Monitoring System (Partail Introduction)

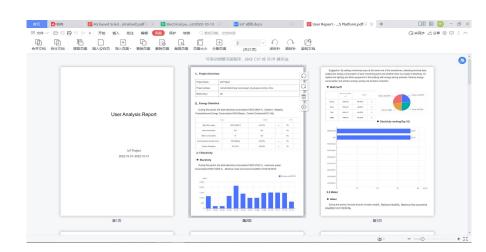
Main Function of WEB side System:

(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.

SAcrel	IoT EMS Platform	Q Lo	2 ⁹⁹⁹ Middle ³ High ²⁹⁹ -C & -S Stapp II @ 🔓 17 test
Power Maniforing ~	Welcome Real-time Monitoring		
Data Visualization	Project Name	Report Template	â Save
	D IoT Project	- AI	
	xincheng road, jiangyin city, jiangsu province, china	projectOverview evergystatistics	
	333	energyEfficiency intransformer	
	338	> 🔄 incomaAnalysis	
		eventAnalysis inspection	
Operation Management	Эл		
	338		
	338		
User Report	Weiglow masses Sdn Bhd		
	0		
Help	C		



4. 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.

13:23 🖾 🐿 💊	🕮 器u 器u 77% 💶
< Device List	
Q Gateway ID/Meter Type	
Cabinet temperature ()	
Gateway ID:12202141960001	>
Meter address:12108275060005_1	
Meter Type:ATC600	
Coline	
Gateway ID:70100001001	>
Meter address:T001055	,
Meter Type:ADF400LS	
Conline	
Gateway ID:70100001001	>
Meter address:T001054	,
Meter Type:ADF400LS	
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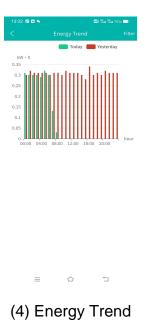
(1) Device List

13:32 😰 🖼 🗣			75% 💷
<	Electrical p	ara…	Filter
Acquisition time	Ua(V)	Ub(V)	Uc(V)
00:00	220.9	220.6	221.4
00:05	221.4	220.8	221.5
00:10	221.9	221.7	222.1
00:15	221.6	221.2	222
00:20	222	221.5	221.9
00:25	221.5	221.2	221.8
00:30	221.9	221.3	221.6
00:35	220.6	220.4	220.9
00:40	221.6	220.7	221.7
00:45	222.3	221.4	222.2
00:50	221.5	221	221.7
00:55	221.9	221.7	221.7
01:00	221.4	220.8	221.6

(3) Parameter Report

13:28 🗗 🖬 🛸		@\$ Rat Rat 76% 💶)	
Device Status:Online	2	2022-10-13 13:25:00	
Ua	Ub	Uc	
218.8V	217.5V	218.6V	
Uab	Ubc	Uca	
V	V	V	
la	Ib	Ic	
0.8A	0.8A	0.8A	
Pa	Pb	Pc	
0.08kW	0.16kW	0.16kW	
р	Oa	Ob	
0.48kW	-0.08kVar	0kVar	
Qc	0	PFa	
0kVar	-0.16kVar	0.666	
EPI	EPE	EQL	
15258.4kW • h	5790.4kW • h		
EQC 7143.2kW • h			
/143.2KW • N			
Phase voltage		2022-10-13 🔹	
	- O - Ua - O -	Ub -O- Uc	
V			

(2) History Curve





(2) History Curve

13:34 🗗 🖬 👟		🕮 क्षेत्र क्षेत्र 74% 📼 Filte
energy	Data report	CO2
Circuit name	17:00	002
	Cost(¥)	Consumpti on(kW · h)
Z	0.00	0.80
1	0.00	22.40
	0.00	38.40
-	0.00	17.60
	0.00	18.40
Total	0.00	97.60
=	<u>ہ</u>	1

(5) Energy Report