

#### 1. Scenario Preset

- (1) There are 10 Areas with 3-phase Power System needed to be monitored
- (2) Each area has 20 circuits 3-phase needed to be monitored, circuits' rated voltage is 400Vac L-L
- and 230Vac L-N, circuit's rated current is 100A AC.
- (3) For the place that we gonna install energy meter and 4G gateway, it was covered by stable 4G signal.
- (4) All 3-phase energy meter will be of partial centralized installation in each area, which make it possbile for 1 AWT100-4GHW 4G IoT gateway to support 20 (max 25, recommend 20) ADL400/C
  3-phase Energy Meters using RS485 wired communication in a close range within 300m.

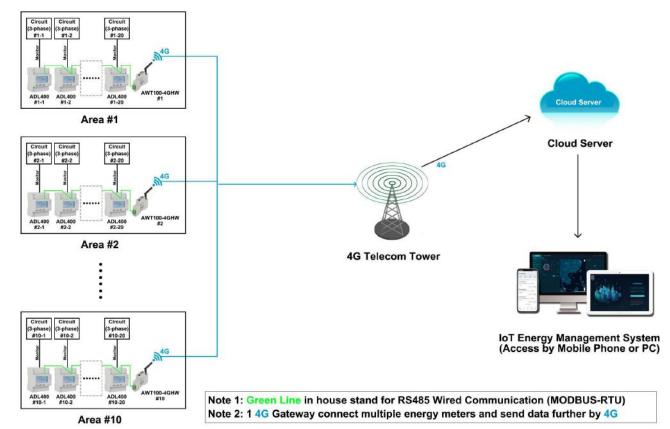
### 2. Devices Deployment Plan

#### Area #1 - Power Circuit [3-phase] #1-1 ~ #1-20:

- 1\* AWT100-4GHW IoT 4G Gateway [Support energy meter in Area #1 for 4G Data Upstream]
- 1\* AWT100-POW Power Supply Module [For 85~265Vac/Vdc power supply of AWT100-4GHW]
- 20\* ADL400/C 3-phase DIN-rail Energy Meter [For monitoring Power Circuit #1-1 ~ #1-20]
- 60\* AKH-0.66/K K- 24 150/5 Split-core Current Transformer [Paired with ADL400/C for current input]

### Area #10 - Power Circuit [3-phase] #10-1 ~ #10-20:

- 1\* AWT100-4GHW IoT 4G Gateway [Support energy meter in Area #10 for 4G Data Upstream]
- 1\* AWT100-POW Power Supply Module [For 85~265Vac/Vdc power supply of AWT100-4GHW]
- 20\* ADL400/C 3-phase DIN-rail Energy Meter [For monitoring Power Circuit #10-1 ~ #10-20]
- 60\* AKH-0.66/K K- 24 150/5 Split-core Current Transformer [Paired with ADL400/C for current input]

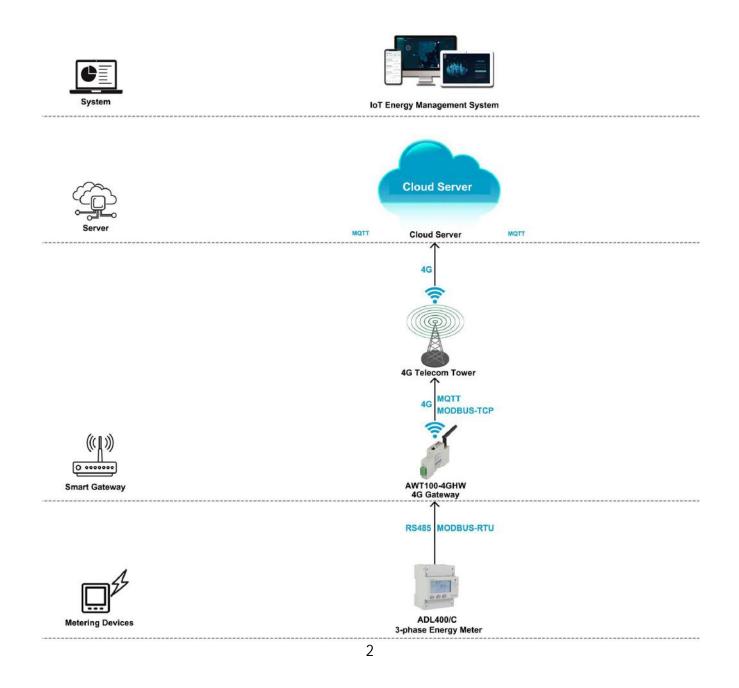




## 2. Communication Structure&Logic

(1) 4G Communication could be served as one of the final data upstream methods by sending the data to cloud server deployed in Internet so that Acrel IoT System could be interact with these data collected by bottom metering devices like Energy Meter

(2) AWT100-4GHW gateway support upstream of 4G communication with MQTT and MODBUS-protocol and downstream of RS485 communication based on MODBUS-RTU protocol. ADL400/C support upstream communication of RS485 communication based on MODBUS-RTU protocol.
(3) Based on the communication described in item (2), Acrel AWT100-4GHW gateway could receive the data from ADL400/C energy meter using RS485 communication while sending the data further to cloud server using 4G upstream communication. Thus accomplish a complete communication from bottom metering devices to top system software.





# 4. Hardware Devices Overview [Energy Meter & Paired IoT Gateway]

### Model 1: AWT1000-4GHW IoT 4G Smart Gateway

- Upstream Comms.: 4G LTE [MQTT, MODBUS Protocol]
- Downstream Comms.: RS485 [MODBUS-RTU Protocol]
- Support: Up to 25 Downstream Devices via RS485.
- Auxiliary Power Supply: 85~265Vac [via AWT100-POW]
- Certificate&Standard: CE; CE-RED; IEC
- More Introduciton: <u>https://www.acrel-electric.fr/product/</u> awt100\_4ghw\_iot\_smart\_4g\_gateway





### Model 2: AWT100-POW Power Supply Module

- Input: 85~265Vac
- Output: 12Vdc
- Application: Paired with AWT100-4GHW for 85~265Vac

Power Supply Input [via PIN L & PIN N]

- Certificate&Standard: CE

### Model 2: ADL400 3-phase AC DIN-rail Energy Meter

- Monitoring: Up 1 circuits 3-phase [AC Metering]
- Rated Voltage: 3x380~456Vac L-L & 220~264Vac L-N
- Rated Current: 3x1(6)A AC (via paired CT)
- Wired Comms: RS485 Interface, MODBUS-RTU Protocol
- Certificate&Standard: CE; CE-MID; EAC
- More Introduction: https://www.acrel-electric.fr/product/

adl400\_three\_phase\_din\_rail\_energy\_meter





### 3. Hardware Devices Overview [Energy Meter & Paired CTs]

Model 2: AKH-0.66/K K- 24 150/5 Split-core Current Transformer

- Current Ratio: 150A/5A
- Primary Current: 150A
- Secondary Current: 5A
- Accuracy: Class 0.5 or 1.0
- Certificate&Standard: CE
- More Introduction: https://www.acrel-electric.fr/product/split\_core

\_current\_transformer\_akh\_0\_66\_k\_24



## 4. Overall Model Selection&Quoation

(1) This Quotation doesn't include freight charge. To gain a complete quotation, please refer the actual quantity that you want to request for the actual order, once we receiving it. We will issue a Official Proforma Invoice with Acrel Stamps on it for later procedure.

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				Aperture: φ24mm (diameter) Accuracy: Class 1.0 Application: Paired with ADL400/C for current	600 pcs		F	7



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

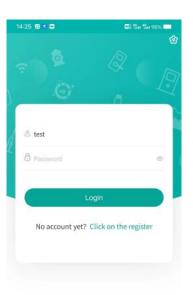
Download Link: https://play.google.com/store/apps/details?id=com.acrel.iotems

(1) WEB Accesss (Computer):Access Port: https://iot.acrel-eem.com/Test Account Name: acrelTest Account Password: 123456



(2) APP Accesss (Mobile):
Download Link: https://play.google.
com/store/apps/details?id=com.acrel.
iotems
Test Account Name: acrel
Test Account Password: 123456





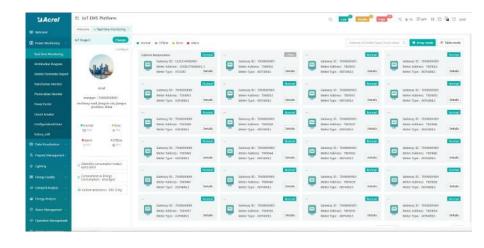
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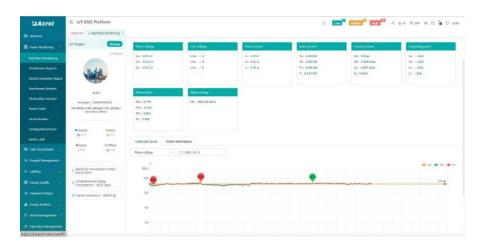
Main Function of WEB side System:

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

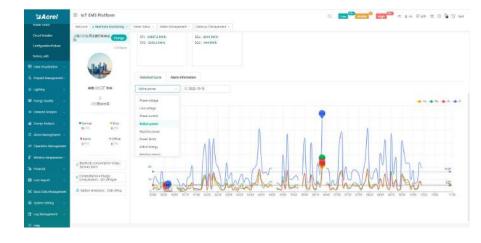
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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.

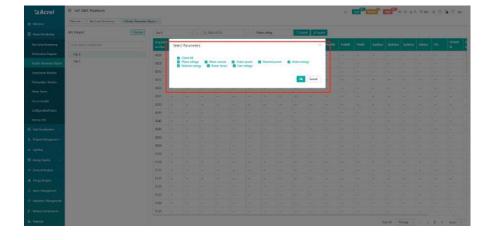




Main Function of WEB side System:

(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.

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(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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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)

	Walcone   teal-time Monitoring -   + there age age to											
	Charge	trange Consumption Con	quidenzive tree	gi Consumption I	albon Danide	torisismi						
	Take such context have	freegy Consumption: the	NIC .	_ 0eV: 0	y - 1	3012-10-19	0	Seed. S Out.	e best			
	S Al S Cocales		0000		81.00		02:00		63.90		0420	
		<ul> <li>Group Node</li> </ul>		Consequences With		Consemption () Web		Consequences in		Greanepticedk		Centered
W teens Galily -	а л а о т	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0)	0.02	5.00	6.23	0.05	0.32	8.00	8.22	0.08	0.32
	<b>a</b>	T. Constant	0.00	31.20	-	12.33	0.86	36.00	1.00	15.20	0.00	22,40
a Change Analysis	a		6.00	46.40	1.00	20.40	0.00	-44.00	16.00	26.08	0.00	39.20
Intergr Chemilen		11 1 1 1 1 1 1 1 1	0.00	0.00	A.00	5.00	8.82	2.07	2.00	8.00	0.00	0.00
Tel Andrea		10 N	000	1100	8.000	11.00	0.000	12,00	8.00	11.20	028	11.20
		G. NUMBER	0.00	59.20	1.00	29.33	1.00	-40.90	2.00	12.80	0.00	47.20
	• • • •	23 N	1110	42.40	1.00	82.62	1.10	28.40	8.00	12.68	11.09	12.30
trange Terms		C N III III	100	25.60	1.00	29.92	0.00	2590	4.107	25.60	0.00	27.80
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Multiple Table Report:		G	0.00	24.00	1.00	21.62	8.88	20,80	8.00	21.68	0.08	26.80
Trenty Real		17	-	80.00	1.00	42.62	2.20	30-80	0.00	43.62	11.00	4030
Los Arabas			1.00	3340	4.00	6.00	0.00	0.00	8.00	830	0.08	0.00
		12	-	AL 40	1.00	29.43	0.00	47.20	8.00	47.23	10.00	49.40
						43.10		11.00		111 E M		100.00

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

◎相た					NR電 1422	-	10 元和10			WHE and a		E Baild	- System	<ul> <li>Daily Rep</li> </ul>	art, else 🖓 👘				
- 62	6850	: • <b>(</b> 115)	BRA.	1288670	\$295	69 B	16 (6 <b>2</b> )	并按工具	炎性型度	杨光的课	BUGI RE	C. 11	nav. seres	4			3.4004	白粉作己	分準
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	-8.30		0.00	9.60		0.00	9.60		0.00	9.60		0.60	9.60	0.00	9.60		0.00	9.60	
1000			0.00	11, 29		0,00	12.00		0.00	11.29		0.00	11.20	0.00	12.00		0,00	12.00	
diam'r ar	- 39. 20		0.00	39.20		0.00	40.80		0.90	32.80		0.00	47.20	0.00	40.00		0.00	39.20	
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	-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	
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	-40.00		0.00	40.80		0.00	40.80		0.00	40.80		0.00	40.88	0.00	40.00		0.00	40.80	
100.00	0.00		0.00	0.80		0.00	0.50		0.00	0.80		0.00	0.00	0.00	0.30		0.00	9.60	
	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	
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(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.

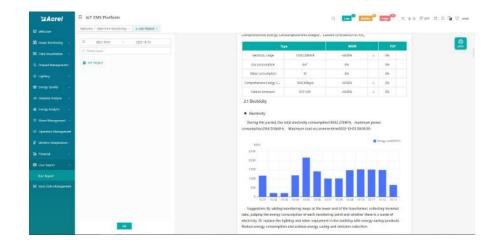
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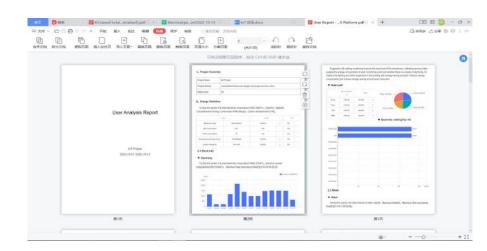
Main Function of WEB side System:

(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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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.

123 🗉 🖸 🍆	🔊 No No 775 📼
Device List	
Q Gateway ID/Meter Type	
Cabinet temperature	
Sateway ID:12202141960001	122
Aeter address:12108275060005_1	2
Anter Type:A7C600	
()))))	
ateway (0:70100001001	1767
Aeter-address:T001055	3
Aeter Type:ADF400LS	
(0000)	
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Aeter Type: ADF400LS	
Fateway ID:70100001001	125
Aeter address: T001052	>
Aeter Type:ADF400LS	
(000e)	

(1) Device List

Acquisition time	Ua(V)	UP(A)	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

< Real-time Monit		Crefres
Device Status Online		
Ua	Ub	Uc
218.SV	217.5V	218.6V
Uab	Ubc	Uca
W	V	V
la	lb	lc
0.8A	0.8A	0.8A
Pa	РЬ	Pc
0.08kW	0.16kW	0.16kW
Р	Qa	Qb
0.48kW	-0.08kVar	OkVar
Qc	Q	PFa
OkVar	-0.16kVar	0.666
EPI	EPE	EQL
15258.4kW • h	5790.4kW • h	16692kW • h
EQC		
7143.2kW · h		
Phase voltage	+	2022-10-13 =
	-O- Ua -O-	Ub 🔶 Uc

(2) History Curve



=

## (4) Energy Trend



## (2) History Curve

energy	comEnergy	C02
	17:00	
Circuit name	Cost(¥)	Consumpt on(kW-h)
z	0.00	0.80
) 1	0.00	22.40
50	0.00	38.40
-	0.00	17.60
4	0.00	18.40
Total	0.00	97.60

(5) Energy Report