

1. Scenario Preset

(1) There are 10 Areas power by 1-phase power system, each area is far from each other so impossible for centralized installation of energy meters.

(2) For each area, we need to monitor 1 circuit 1-phase of it for monitoring the overall area's load power consumption.

(3) Rated voltage of this main incoming circuit 1-phase is 230Vac L-N, and rated/max current was no more than 100A AC.

(4) For the places that we gonna install the energy meter, they are covered by stable WiFi signal.

(5) Eventually, for each area we only need 1 pcs ADW310-D16-WF/C WiFi 1-phase Energy Meter.

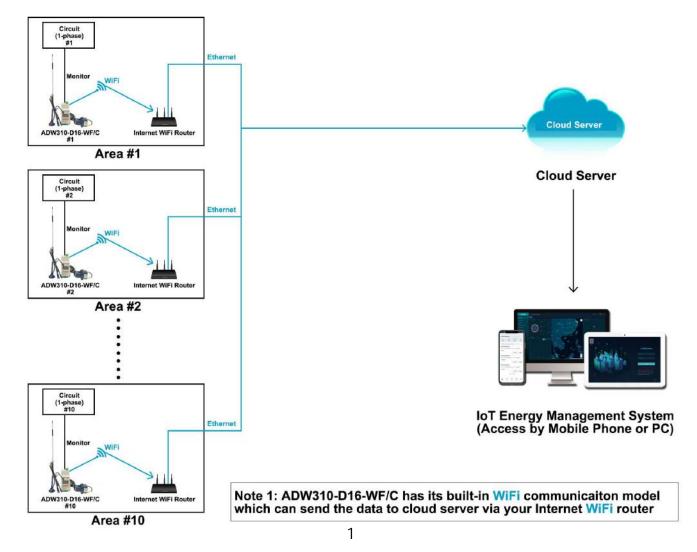
2. Devices Deployment Plan

Area #1- Power Circuit (1-phase) #1:

- 1* ADW310-D16-WF/C WiFi 1-phase Energy Meter [For monitoring Power Circuit #1 & WiFi Upstream]

Area #10 - Power Circuit (1-phase) #10:

- 1* ADW310-D16-WF/C Wireless WiFi Energy Meter [For monitoring Power Circuit #10 & WiFi Upstream]

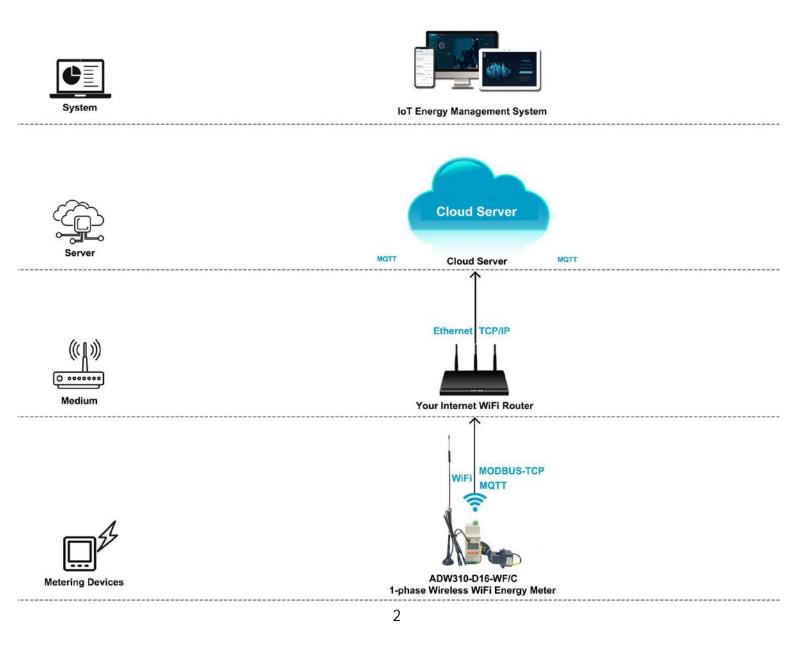




3. Communication Structure&Logic

WiFi Communication could be served as one of the final data upstream methods by sending the data to cloud server deployed in Internet via your WiFi Internet Router so that Acrel IoT System could be interact with these data collected by bottom metering devices like Energy Meter
 ADW310-D16-WF/C Wireless WiFi 1-phase Energy Meter has a built-in WiFi communication module which allow it to directly send data to your Internet WiFi Router using MQTT and MODBUS-TCP protocol without using a extra WiFi IoT Gateway. Then your WiFi router will send the data further to internet for a final data upstreaming.

(3) In the factory manufacturing stage, we can set the WiFi configuration (WiFi account and password) in ADW310-D16-WF/C so that users normally don't need to set WiFi configuration again.
(4) ADW310-D16-WF/C also have a RS485 communication normally used for devices adjustment with Acrel ADW310 adjustment softare. For example, setting like WiFi configuration could be done.





Acrel 4G Based IoT Energy Monitoring Solution (3-phase Separate Cloud)

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4. Hardware Devices Overview

Model 1: ADW310-Dxx-WF/C WiFi 1-phase IoT Energy Meter

- Monitoring: Up to 1 circuits 3-phase [AC Metering]
- Wireless Comms.: WiFi [MQTT, MODBUS Protocol]
- Wired Comms.: RS485 [MODBUS-RTU Protocol]
- Rated Current: 3x1(6)A AC [via -/5A CTs.]
- Rated Voltage: Up to 220~264Vac L-N
- Certificate&Standard: CE
- More Introduction: https://www.acrel-electric.fr/product/adw310-

iot1-phase-wireless-smart-energy-meter





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.

			System Software				
Name			Description	System Price			Remark ce or Buy-out Service after al of Cloud IoT System)
		been sent to cloud s	Il the meters across the country whose data has server through 4G,WiFi or Ethernet . ading and data collection.	\$0 (recommended in pilot pr	ojtect)		onth Free Trail ed to rent a cloud server))
	• <u> </u>	3.Provide IoT APP 4.Generate energy of	for mobile phone side and IoT WEB for PC side. data report of daily, monthly and annually yeay and period-on-period energy analysis.	\$xxx/Year (For 10 Poi (Price for Host Service recommended in pilot pr	Only,	connected	ervice for 1 monitoring poi to the system 1 year ed to rent a cloud server)
Acrel Cloud IoT Energy Manage	ment System	5.Provide various a of the system and p	larm function to ensure a stable operation rotect your property. e trial of system with full technical support	\$xxxxPermanent (Limitless (Price for Buy-out Sen Only,recommended in late	Points) vice	1-time charging of permanent use (Lim	\$xxxx for Buy-out Service (itless monitoring points and eed to be rent by users)
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Name			Description	Server Renting Pric (For Reference Only			Remark
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			WiFi Wireless Energy Met	er			
Overview Picture	USAGE&MC	DDULE NAME	DESCRIPTION & SPECIFICATION	QUANTITY	FOB U	INIT PRICE (USD)	AMOUNT (USD)
		reless Energy Meter - D16-WF/C	Communication: WiFi (MODBUS-TCP, MQTT) & RS485 (MODBUS-RTU) Rated Voltage: 220~284Vac L-N Rated Current: 20(100)A AC (via paired external CTs)	10 pcs		\$	
k		al Split-core Current nformer	Current Ratio: 100A/25mA AC Aperture: o16mm Appliaction: Paired with ADW310-D16-WF/C for current input	10 pcs		g both Energy meter I External CTs)	



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

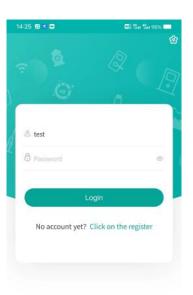
Download Link: https://play.google.com/store/apps/details?id=com.acrel.iotems

(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





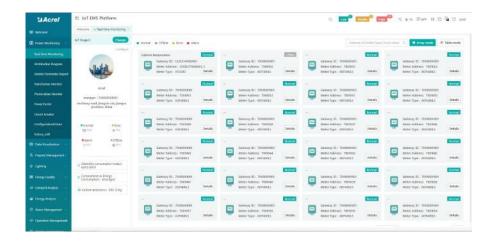
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Main Function of WEB side System:

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

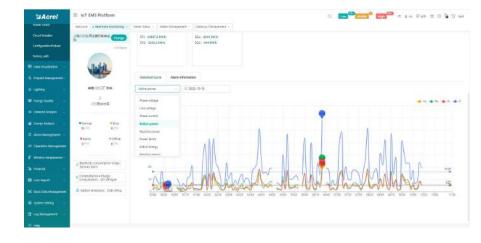
(1) Devices List: Showing the overall devices connected to Acrel System and were bond to certain project. SN code, Online-Offline status, devices model and other necessary information will be shown here.



(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

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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.

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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)

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

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	24.80	0.00	21.60	0.00	28.80	0.00	21.60	0.00	20.80	0.00	20.80	0.00	20,80	
	-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	
100.0	0.00	0.00	0.80	0.00	0.50	0.00	0.80	0.00	0.00	0.00	0.30	0.00	9.50	
	3(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	
1. · · ·	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	
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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.

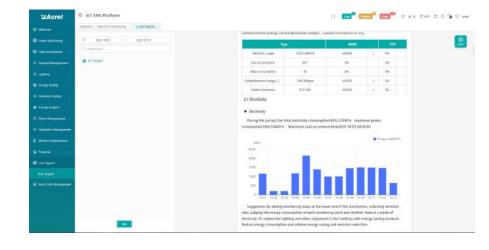
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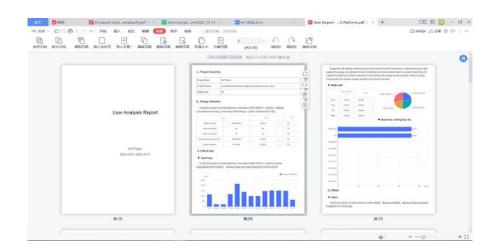
Main Function of WEB side System:

(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.

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Device List	
Q Gateway ID/Meter Type	
Cabinet temperature	
Sateway ID:12202141960001	120
Aeter address: 12108275060005_1	2
Anter Type:A7C600	
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Aeter-address:T001055	>
Aeter Type:ADF400LS	
(0000)	
Sateway ID:70100001001	5
Aeter address: T001054	2
Aeter Type:ADF400LS	
(2000)	
Sateway ID:70100001001	
Aeter-address: T001053	>
Aeter Type:ADF400LS	
(1111)	
Sateway ID:70100001001	
Aeter address: T001052	3
Aeter Type:ADF400LS	
(0.0m)	
= 0	

(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

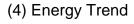
(3) Parameter Report

13:28 🖻 🖬 🛸		🕮 dia tia 74% 🖬
< Real-time Monit	oring	
CORPORATE AND IN		
Device Status Online		2022-10-13 13:29:00
Ua	UЬ	Uc
218.8V	217.5V	218.67
Uab	Ubc	Uca
W	V	V
la	lb	lc
0.8A	0.8A	0.84
Pa	РЬ	Pc
0.08kW	0.16kW	0.16kW
Р	Qa	Qb
0.48kW	-0.08kVar	0kVar
Qc	Q	PFa
0kVar	-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 -O- Uc
V		

(2) History Curve









(2) History Curve

<	Data report	Fil
energy	comEnergy	C02
	17:00	
Circuit name	Cost(¥)	Consumpt on(kW+h)
z	0.00	0.80
1	0.00	22.40
2	0.00	38.40
-	0.00	17.60
4	0.00	18.40
Total	0.00	97.60

(5) Energy Report