Acrel



IOT EMS SOLUTION

CATALOG

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01 OVERVIEW

OVERVIEW

Acrel IoT Energy Management System is a comprehensive system including the functions like real-time electricity parameters monitoring, in-time fault alarm processing and remote control of IoT devices which could support all the Acrel products connected with it.

Due to a complete devices' factory setting plan, our users could utilize the functions above once they got their IoT devices like energy meters power on without any additional adjustment through our Acrel website IoT platform and IoT APP designed for mobile phone.





02 ADVANTAGE

ADVANTAGE



Centralized monitoring

集中监控

Remote devices upload data 24 hours a day.远程设备24小时不间断上传数据

Energy Analysis

能耗分析

Get the energy consumption of the devices anytime, anywhere.

可以随时随地知道设备的能耗情况

Alarm

报警

Once an alarm occurs on the device, the alarm data will be uploaded in real time and pushed by the app to relevant person.设备一旦报警，报警信息实时上传，并用APP推送通知相关人员

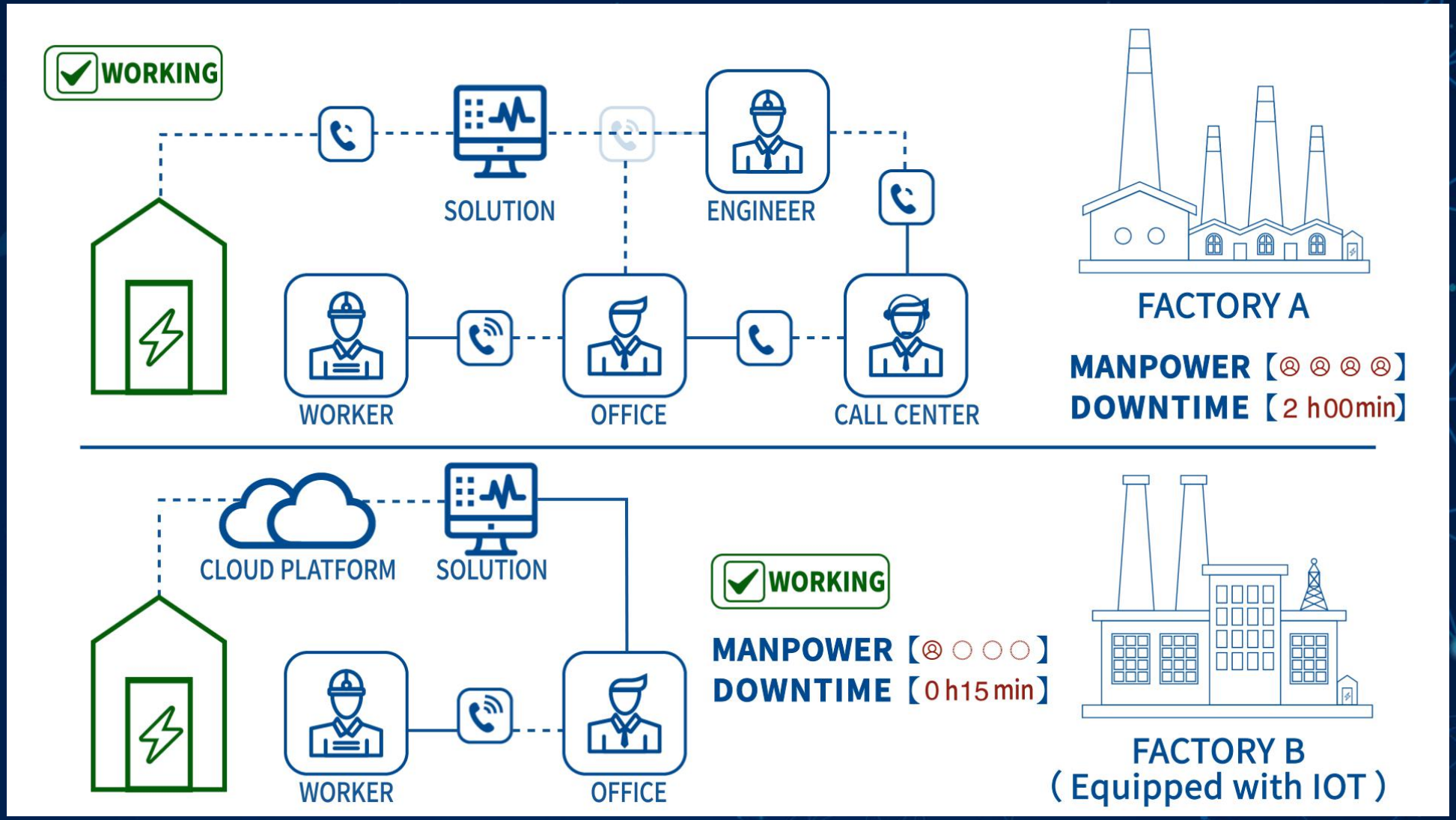
Self-registration

自主注册

Users can register their own accounts and add devices through the mobile app.

通过手机APP用户可以自主注册账号和添加设备

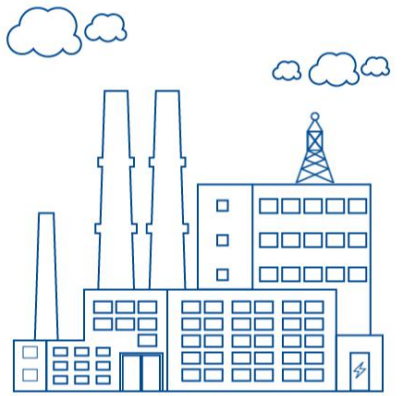
ADVANTAGE


WORKING
SOLUTION
ENGINEER
WORKER
OFFICE
CALL CENTER
FACTORY A
MANPOWER【⊗ ⊗ ⊗ ⊗】
DOWNTIME【2 h00min】
CLOUD PLATFORM
SOLUTION
WORKING
MANPOWER【⊗ ○ ○ ○】
DOWNTIME【0 h15 min】
WORKER
OFFICE
FACTORY B
(Equipped with IOT)

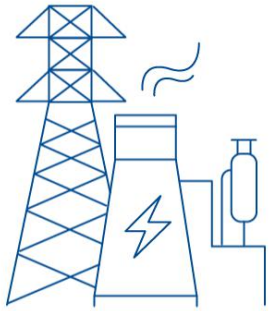
03

APPLICATION

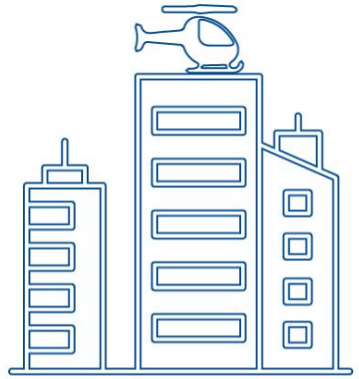
APPLICATION



Industrial Energy Consumption



Substation



Building



Intelligent Lighthouse



Operation and Maintenance of Power



Telecommunication Base Station

04

STRUCTURE

STRUCTURE

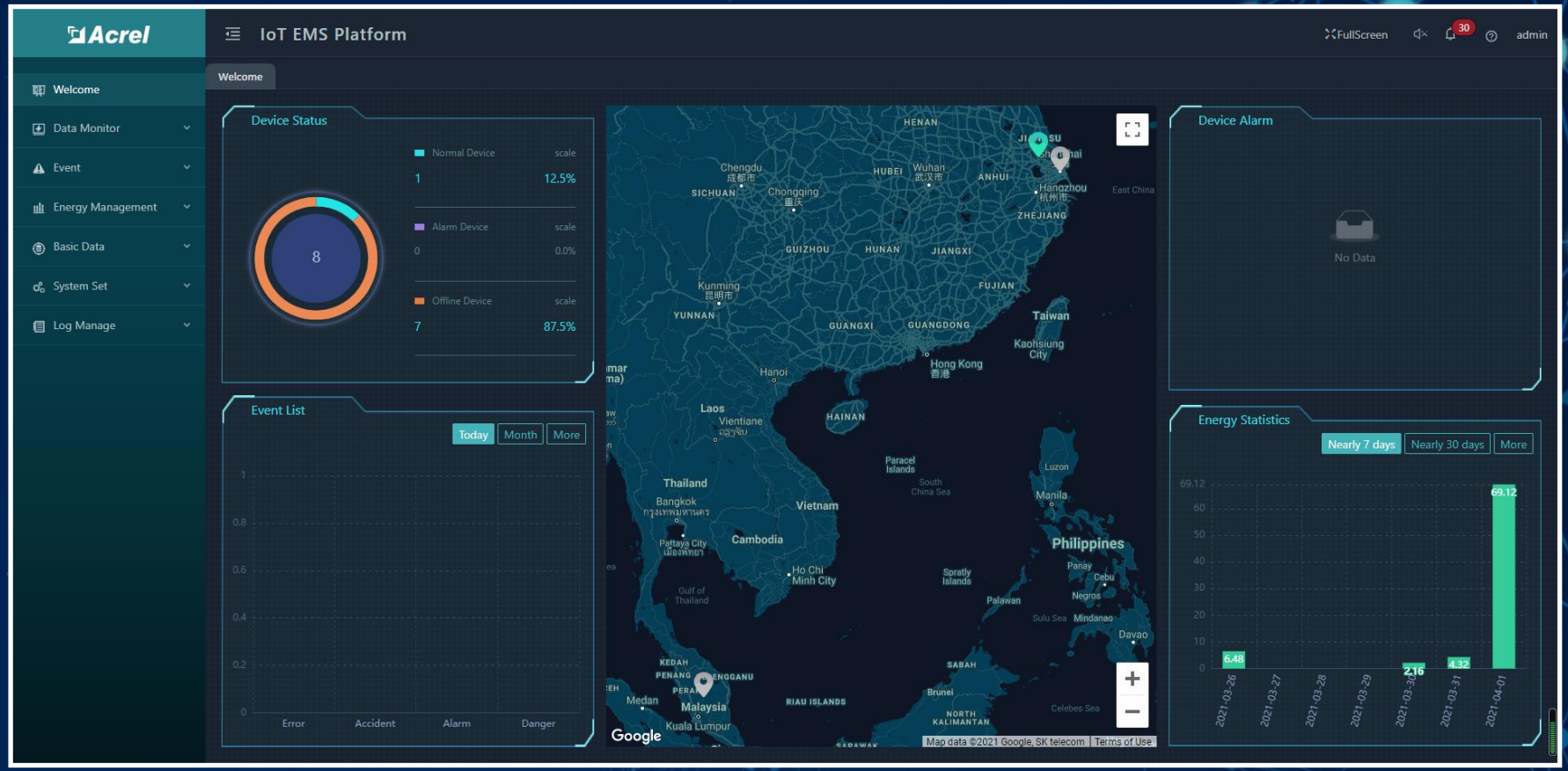

Cloud Platform
MQTT/TCPIP
MQTT/TCPIP
LoRa
LoRa/4G
4G/WIFI
LoRa
4G
WIFI/Ethernet
LoRa
LoRaWAN
ANET-1E2S1-4G
AWT100-LORA
AF-GSM300-HW868
AWT100-WIFI/CE
LORAWAN Gateway
AWT100-LW
LoRa
LoRa
ADW210 IOT Meter
ADW300 IOT Meter
ADW400 IOT Meter
AEW100 IOT Meter
APQM
PZ72L-DE
APM
ADL100-ET
Water meter
MBus Converter

05 MAIN FUNCTION

MAIN FUNCTION——PC

HOME（首页）

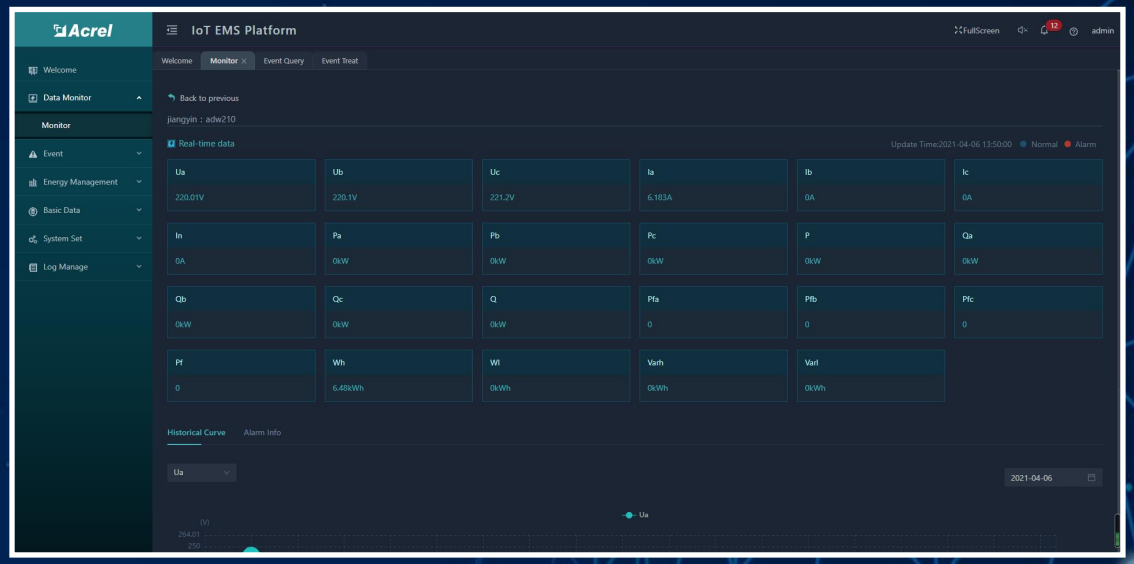
It can provide device status, event list, device alarm information and energy statistics.

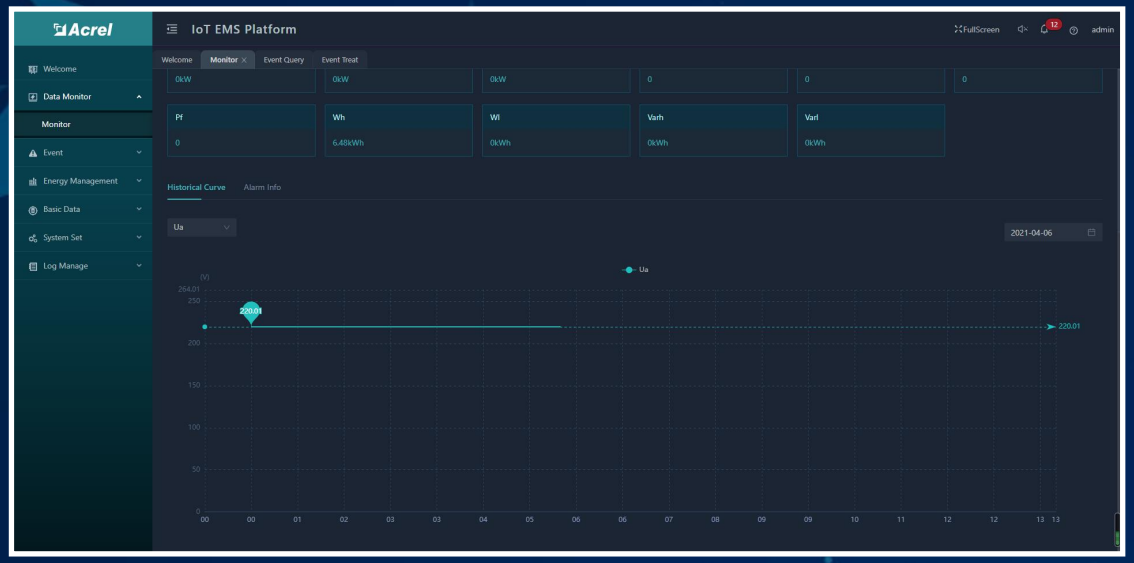


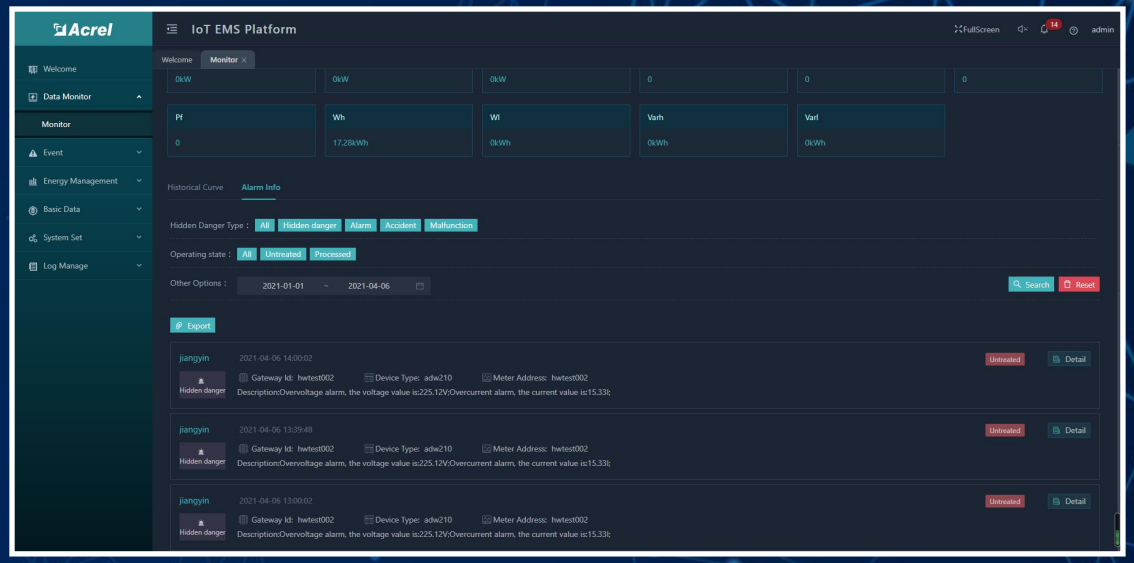
MAIN FUNCTION——PC

Data Monitor

The data monitor includes real-time data, history curve, and alarm info.







MAIN FUNCTION——PC

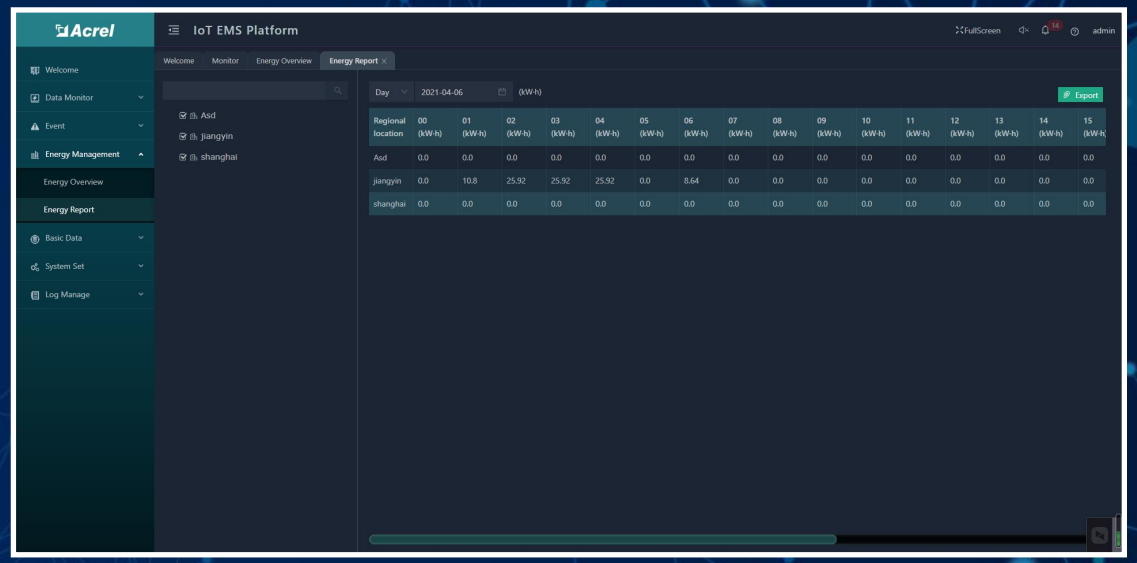
Energy Management

Energy management includes energy overview and energy report.

Energy overview can view the electricity consumption of today, this month, and this year, and can display the corresponding same-month-on-month information, and you can also view the peak electricity consumption of today and yesterday.

Users and administrators can view the energy report of one or more devices. The dimensions of the report are day, week, month, quarter and year. And you can export the energy report.



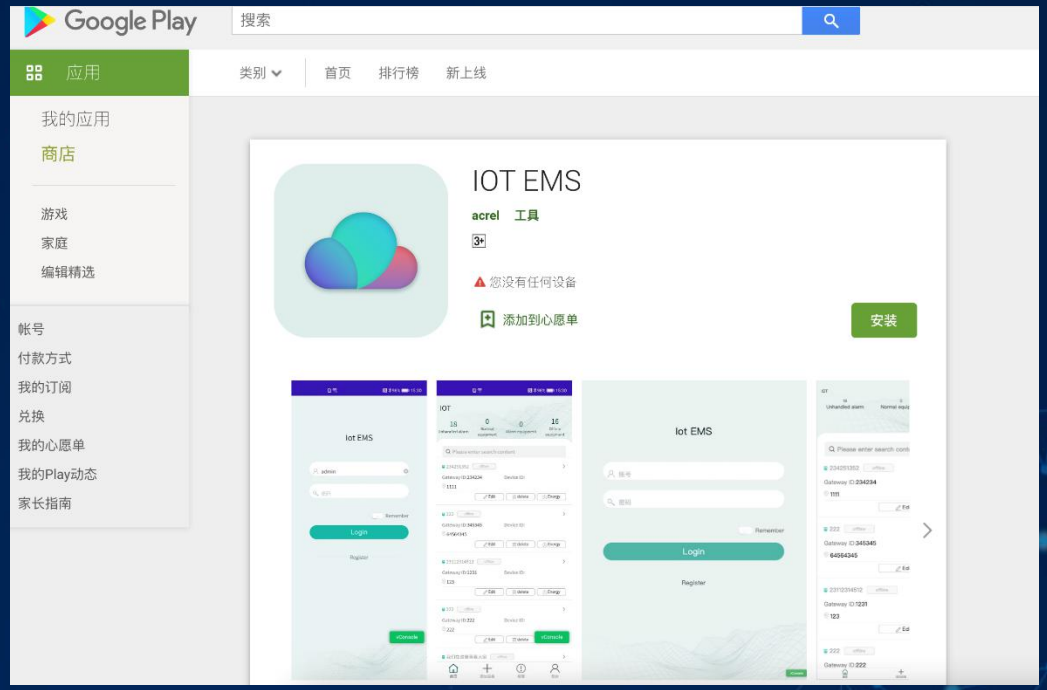


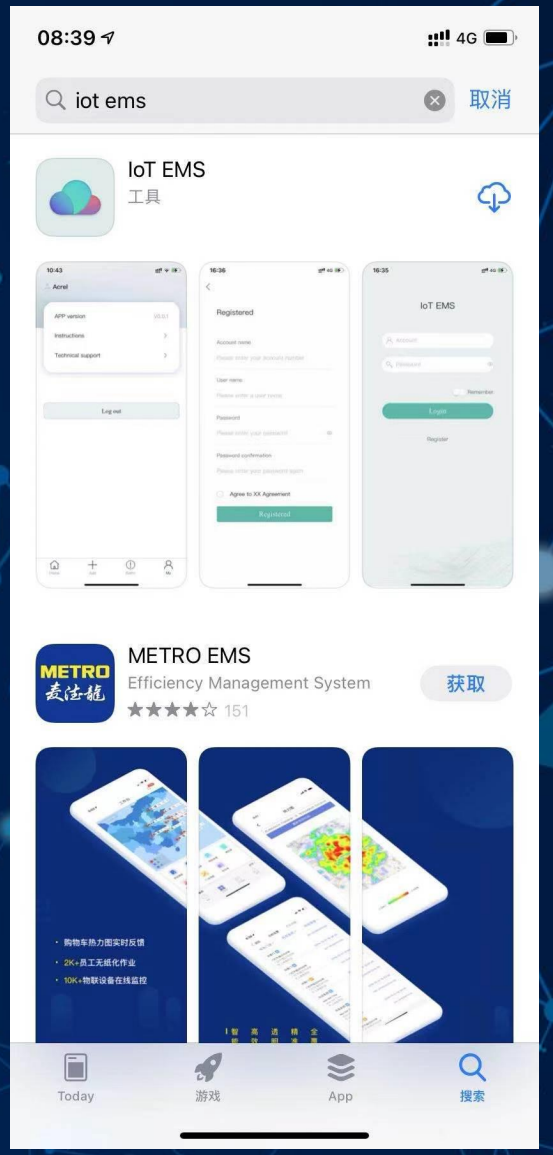
MAIN FUNCTION——APP

Demo Account

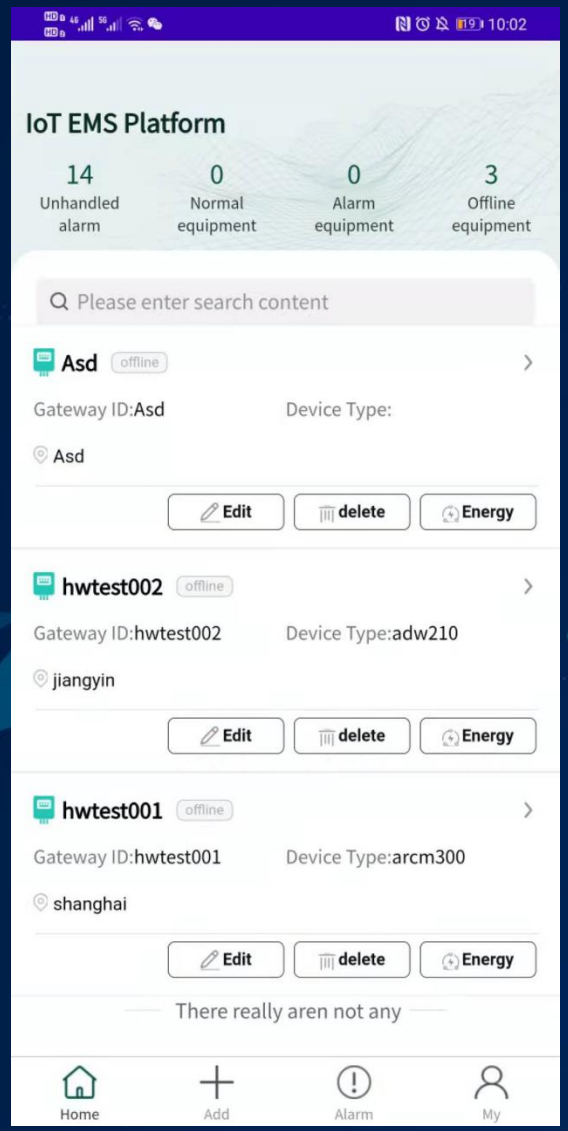
User Name:Acrel

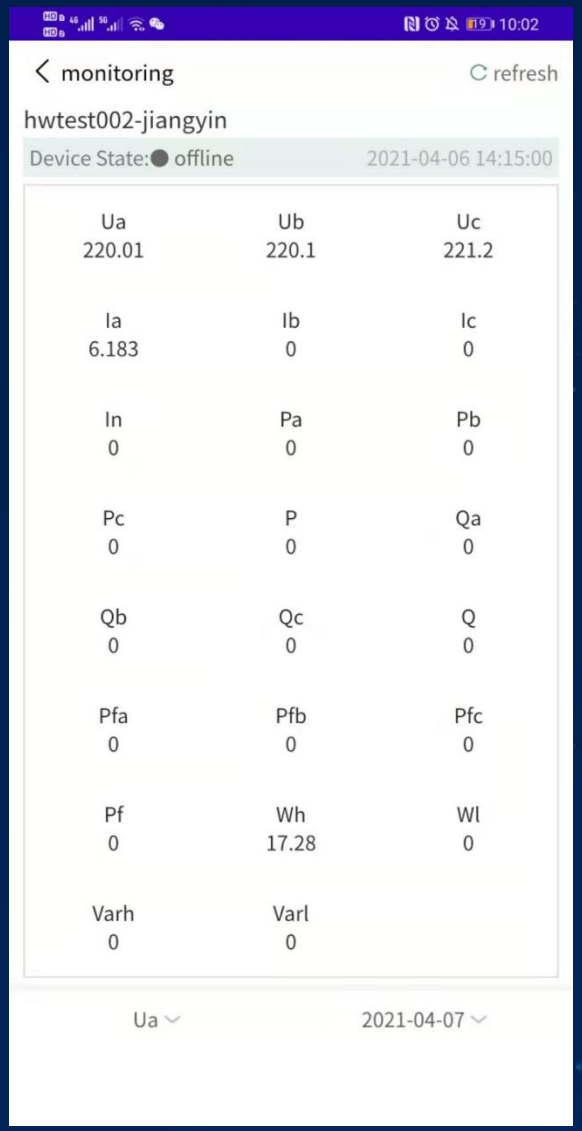
Password:123456

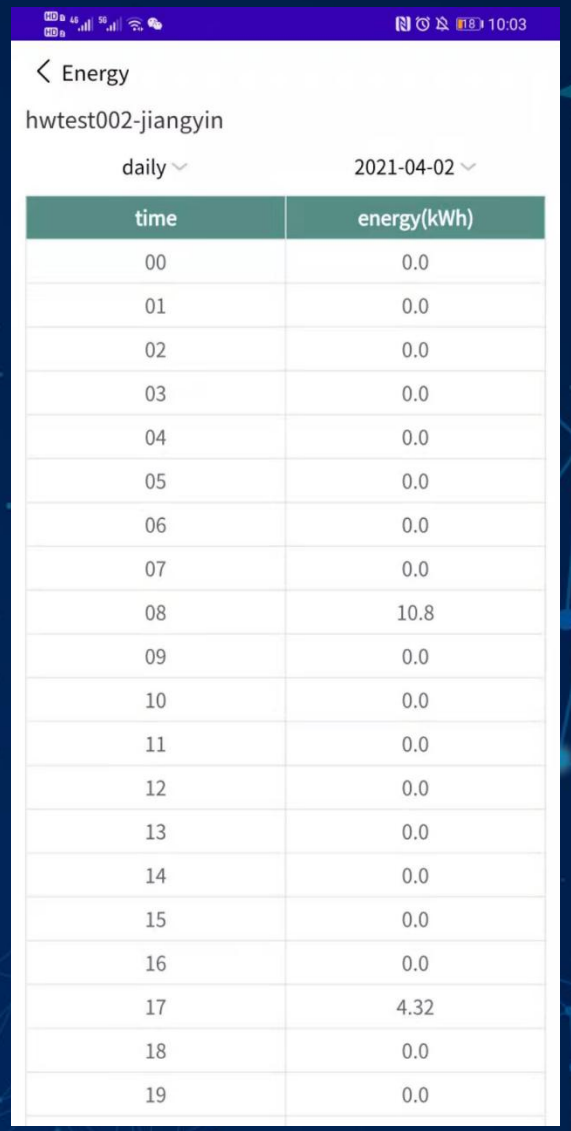


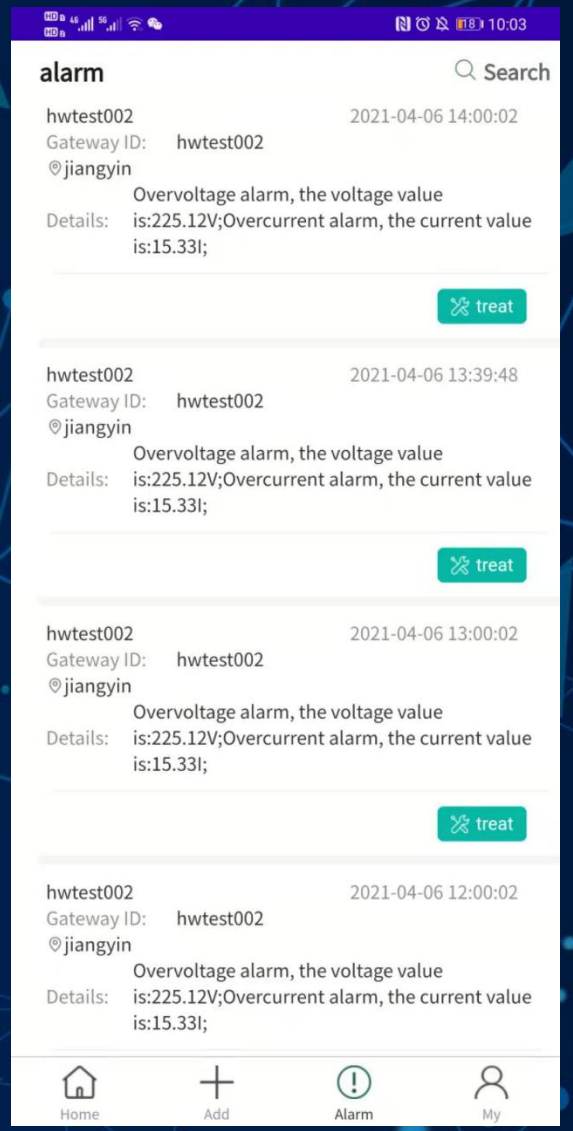


MAIN FUNCTION——APP









06

PRODUCT SELECTION

PRODUCT SELECTION

Gateway	AF-GSM500-4G		Communication:4G or EthernetProtocol: Modbus-TCP, MQTT, etc, protocol can be customizedSupport breakpoint transmission, local data storage, local display and button setting.
	Anet-1E2S-4G		Downlink:2* RS485Uplink:4G
	AF-GSM300-HW868		Downlink:LoRa or RS485It is used with AEW100-HW868Uplink:4GProtocol:MQTT
	AWT100-4GHW		Downlink:RS485Uplink:4G, WiFi or Ethernet

PRODUCT SELECTION

IoT Meter	AEW100		Measurement:3 phase voltage,current,power,power factor ,etc.2-31st individual harmonic and THD measurement Extreme records of voltage,current and power in this month and last 3 monthsMax demand and historical MD of last 12 monthsSOECommunication:RS485 or LoRa
	ADW210		Measurement: 4 circuits 3 phase voltage,current,power,power factor ,etc.Max demandCommunication:RS485 or LoRa
	ADW300		Measurement:3 Phase voltage,current,power,power factor,etc.Accuracy:1Max demand Communication:RS485,LoRa,4G,NB or 2G
	APM830		Measurement:current,voltage,energy,SOE,etc.DI/DO,AI/AO,TF card,etc.Communication:2*RS485,Ethernet and Profibus-DP
	AMC96		Measurement:current,voltage,active power,reactive power,etc.Accuracy:0.5Communication:RS485Certificate:CE,IEC
	ADL10-ET		Measurement:voltage,current,power,energy,etc.Multi-tariff functionCommunication:RS485 Mobus-RTU



THANKS

PRODUCT SELECTION

CTSplit core open CT	AKH-0.66/K		Current ratio:up to 5000/5AAccuracy:0.5,0.2
CTClosed loop CT	AKH-0.66I		Current ratio:up to 6300/5AAccuracy:0.2,0.5