Acrel

ADF400L Series Multi User Electric Energy Meter

Support up to 36 Circuits Measurement

Configurate Prepaid Systerm

Mobile payment

Remote control

Malignant load identification

Power Management of 36 Users

- Independent metering
- Centralized installation and management
- Up to 36 circuits single phase or 12 circuits three phase

Compact Size
Save Space 50%

……

Volume

1 pcs multi user electric energy meter
=4 pcs single phase energy meters

=

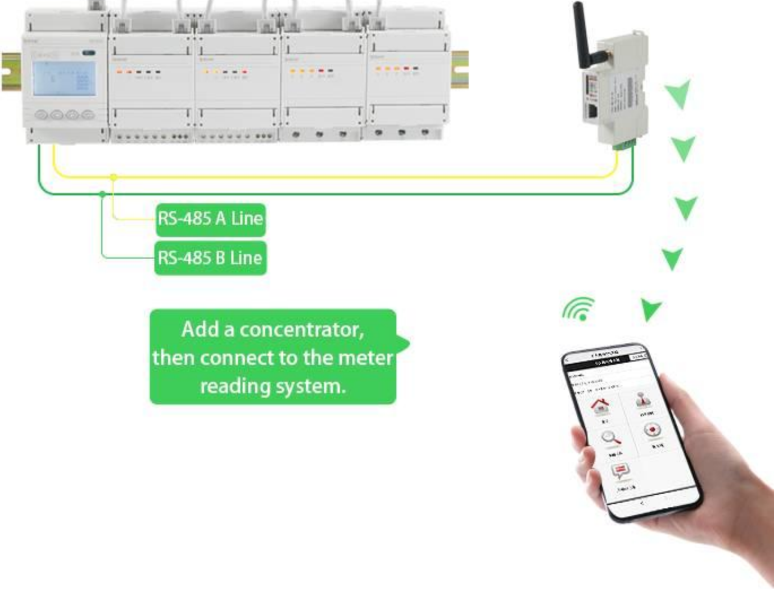
36 pcs Energy Meters

Multi User Energy Meter Configurate Prepaid Systerm

Easy to realize meter

reading and payment

4G/GPRS/NB/WIFI


RS-485 A Line
RS-485 B Line

Add a concentrator, then connect to the meter reading system.

Remote Prepaid Systerm

- Remote meter reading for water, power, gas, etc.
- Mobile payment, remote smart switching and closing
- Multiple operating platforms, mobile phones and computers can be used

Remote
Prepaid Systerm

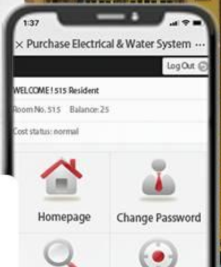
APP

WeChat
Official Accounts

Applet

Prepaid Energy Meter
Use Electricity After Payment

When the balance is insufficient, it will automatically alarm and send a payment reminder.



1:37

× Purchase Electrical & Water System ···

Log Out

WELCOME ! 515 Resident

Room No. 515 Balance: 25

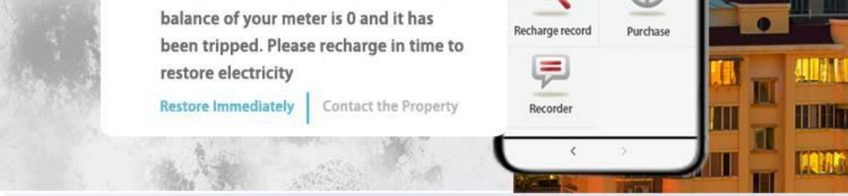
Cost status: normal

Homepage
Change Password

Insufficient balance trip notification Now

Dear customers:

As of 10:25:30 2012/12/03, the current

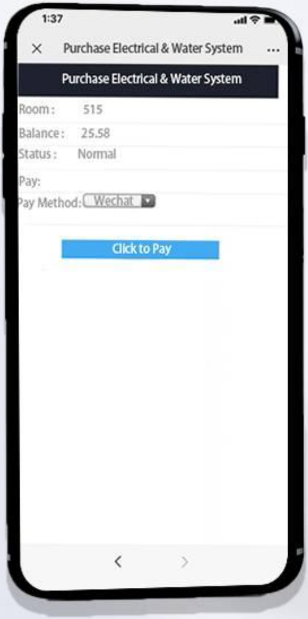


balance of your meter is 0 and it has been tripped. Please recharge in time to restore electricity

Restore Immediately
Contact the Property
Recharge record
Purchase
Recorder

Mobile Phone Recharge and Payment

Fast and Convenient



Purchase Electrical & Water System

Room: 515

Balance: 25.58

Status: Normal

Pay:

Pay Method: Wechat

1:37
Click to Pay

Alipay

WeChat

Remote Power-on and Power-off

Real time/timing switching and closing

Rent payment reminder

Dear 508 residents:

Your rent expires after 3 days, please pay the rent in time or the system will automatically cut off the power when overdue

Rent arrears reminder

Dear 402 residents:

Since you haven’ t paid the rent for the current month, pay the rent now and restore electricity immediately

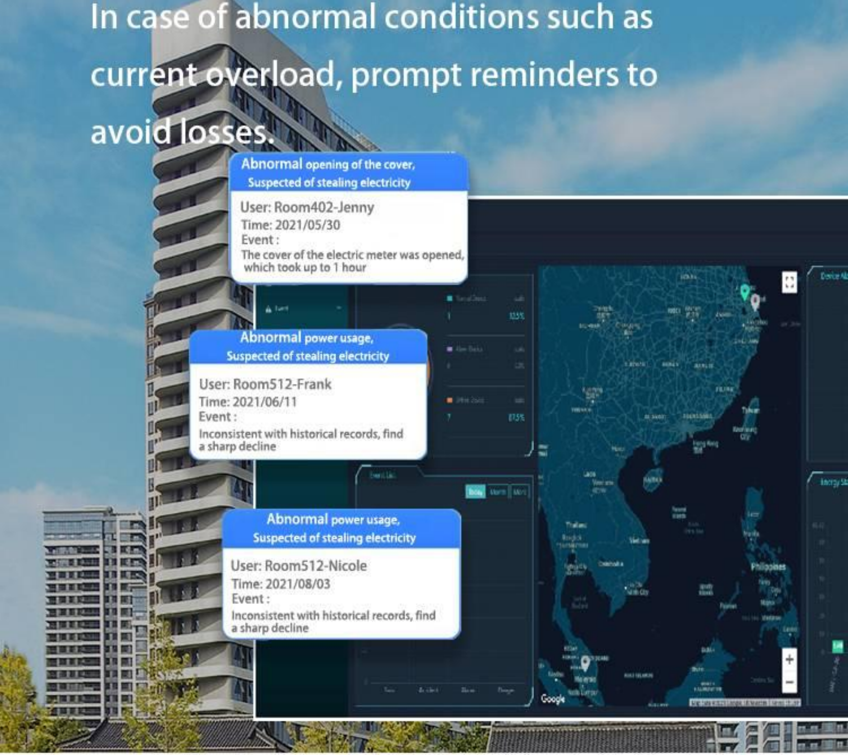
Renewal reminder

Dear 301 residents:

Your lease has expired, please contact the landlord before the end of the month.

Abnormal Electricity Alarm

In case of abnormal conditions such as current overload, prompt reminders to avoid losses.



Abnormal opening of the cover, Suspected of stealing electricity

User: Room402-Jenny
Time: 2021/05/30
Event :
The cover of the electric meter was opened, which took up to 1 hour

Abnormal power usage, Suspected of stealing electricity

User: Room512-Frank
Time: 2021/06/11
Event :
Inconsistent with historical records, find a sharp decline

Abnormal power usage, Suspected of stealing electricity

User: Room512-Nicole
Time: 2021/08/03
Event :
Inconsistent with historical records, find a sharp decline

More Functions

Complete functions

Apply to multiple scenarios

Residential Complex

Property management

Custom electricity price

Business Center

Guaranteed electricity for arrears

Power off for over power

Dormitory

Vicious load identification

Electricity subsidy

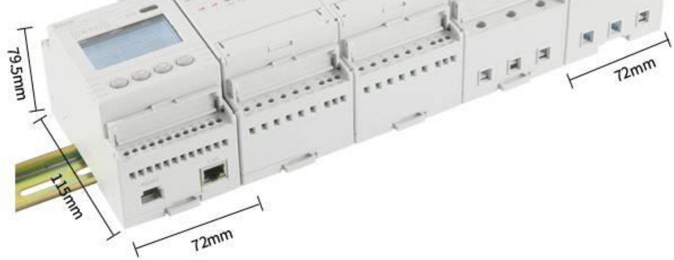
Rental Housing

Rent management

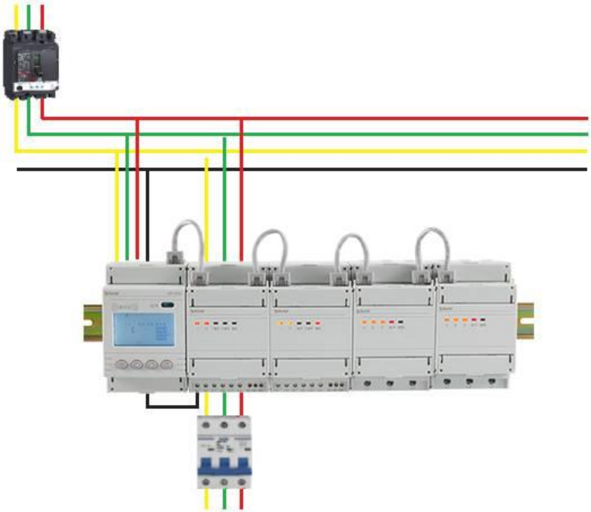
Parameter

- ✓ Voltage：Three phase 3*220V/380V
- ✓ Current：3×1(6)A(via CT)，3*10（80）(directly)
- ✓ Accuracy：Class 0.5S
- ✓ Total active power,forward and reverse active power
- ✓ Total harmonic,sub-harmonic（2～31st）
- ✓ Prepaid control,vicious load control,time control,strong control
- ✓ Infrared,RS485interface,MODBUS and DL/T645 protocol
- ✓ Historical electricity in last 12 months

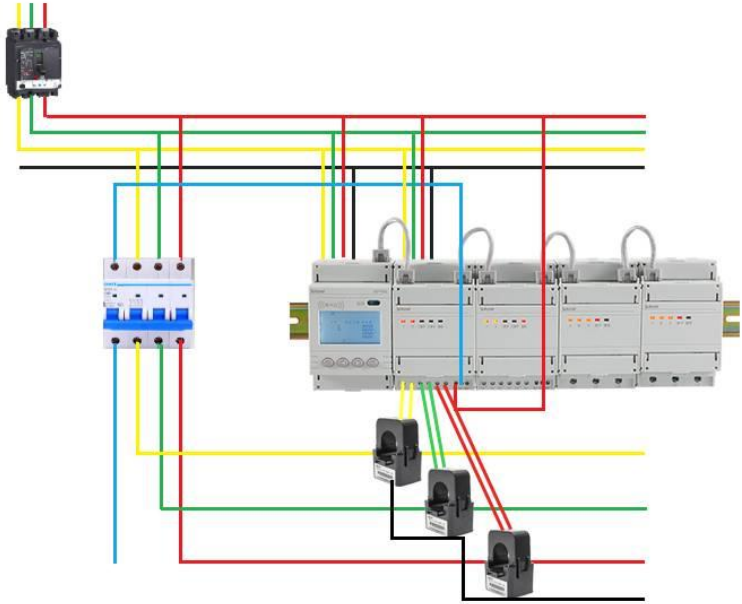
Dimension


79.5mm
115mm
72mm
72mm

Wiring



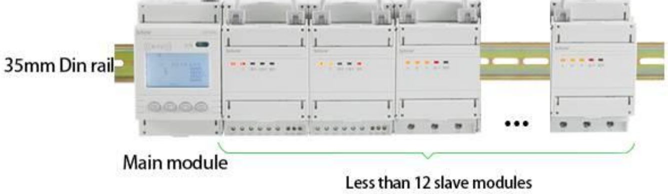
Access directly



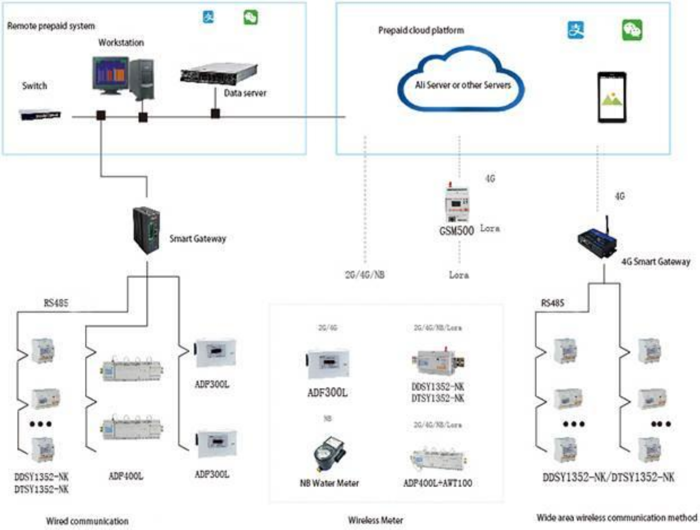
Access via CTs

Installation

The main module and the slave modules are connected by meter's own network cables.

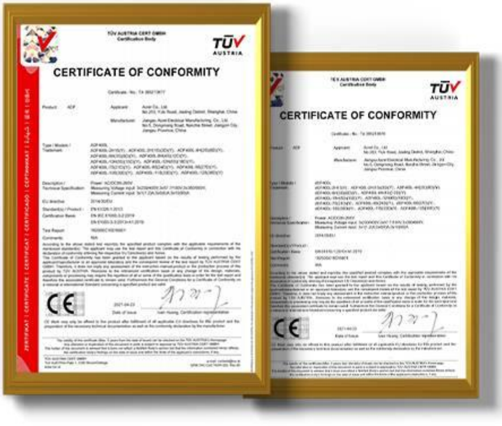

35mm Din rail
Main module
Less than 12 slave modules

Typical Connection


Remote prepaid system
Workstation
Switch
Data server
Prepaid cloud platform
Ali Server or other Servers
4G
GSM500
Lora
4G
4G Smart Gateway
Smart Gateway
2G/4G/NB
Lora
RS485
RS485
2G/4G
2G/4G/NB/Lora
ADF300L
DDSY1352-NK
DTSY1352-NK
NB
2G/4G/NB/Lora
NB Water Meter
ADF400L+AWT100
ADF300L
ADF300L
DDSY1352-NK
DTSY1352-NK
ADF400L
DDSY1352-NK/DTSY1352-NK
Wired communication
Wireless Meter
Wide area wireless communication method

Photos on site

Certificates



TÜV AUSTRIA CERT GMBH
Certification Body

CERTIFICATE OF CONFORMITY

TÜV AUSTRIA CERT GMBH
Certification Body

CERTIFICATE OF CONFORMITY

FAQ

1

Does ADF400L series product need auxiliary power supply?

Yes, the main module must be connected to ABCN.

2

Can the ADF400L main module count and display the total power consumption of the sub-modules?

No, the main module only displays the individual power consumption of each sub-module.

3

The ADF400L series prepaid multimeters have

two methods: secondary access and direct access.
In the case of arrears, what methods
can be used to achieve power off ?

The direct access with internal control function can be opened and closed directly inside; the second access needs to cooperate with a circuit breaker with trip function or a plastic case switch to achieve tripping, and then manually close after recharging.

4

What are the possible reasons
for the inaccurate billing?

Confirm whether the wiring is correct
Confirm whether the current power is correct
(the current can be compared with the clamp meter),
Confirm whether the electricity price is correct.

About Acrel

Acrel Co., Ltd. [Stock Code : 300286. SZ] is a high-tech enterprise concentrating on research, production, sales and services. It mainly provides systemic solutions of energy efficiency management and electrical safety for users. ‘Acrel’ is equipped with the complete production lines from cloud platform software to sensors. Until now, it has more than 8000 sets systemic solutions used in China to help users to realize energy visual management ,supply energy data services and improve electrical efficiency and safety and it provides more high-quality solutions,products and service for power system users and micro-grid.

Producing Workshop