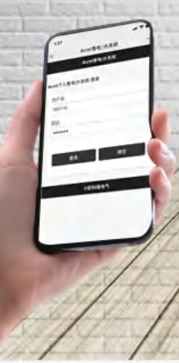
Acrel

DDSY Prepayment Meter

RS485 /NB/4G Multiple Method Can Be Chosen



Acrel Single Phase Prepayment Meter ADL100-EY
0.00 kWh
infrared
OFF
SET
220V~10(60)A
1600imp/kWh

Configure Prepaid System

Mobile Payment

Remote Control

Malignant Load Identification

Main Function

Mobile APP

Measuing

Multi Rated

Support wechat to pay

Support Alipay to pay

Parameter Measuring

Storage 12 Month Electrical Data

Multi-Rated Account

Relay Control

Remote tripping and closing

Remote power protection,

Release power protection

Load control function

Wireless

RS485 communication

Infrared communication

4G, Nb IOT communication

Protocols

Modbus RTU protocol

DL / t645-07 protocol

What is a Prepaid Meter

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What is a prepaid meter
?

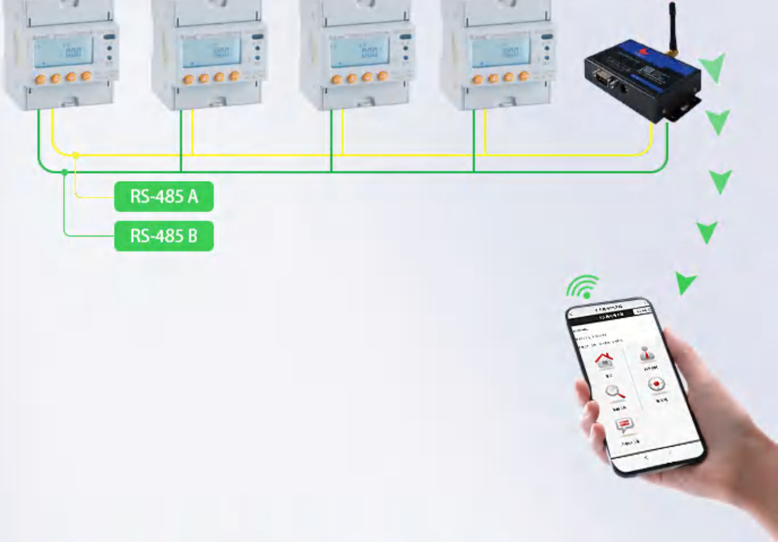
In addition to the metering function of ordinary energy meters, prepaid meters, in particular, users can only use electricity after buying electricity. If users do not continue to buy electricity after using up electricity, they will automatically cut off the power supply and stop power supply.

Networking Prepaid Meter Solution Equipped With Prepaid System

Easily Realize Meter Reading and Payment

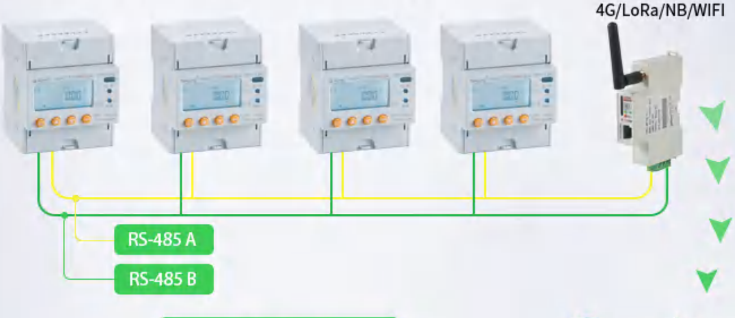
1 RS485 Wiring Method

It is applicable to the occasions where the meters are installed together, Such as hotel apartments / rental rooms.



2 RS485 To Wireless Method

Suitable for occasions where the electric meter can be centrally installed in the electric meter box in a small range



Add a gateway
It can be connected to the
meter reading system

3 LoRa Wireless Method

Prepaid Meter

AWT100

Prepaid Management
Cloud Platform

4 NB/4G Wireless Method

NB Iot meter reading scheme does not need wiring, and is suitable for the application environment with scattered owners, long distance and high requirements for real-time data

Mobile phones and computers with multiple operating platforms can be used

Remote prepaid intelligent system

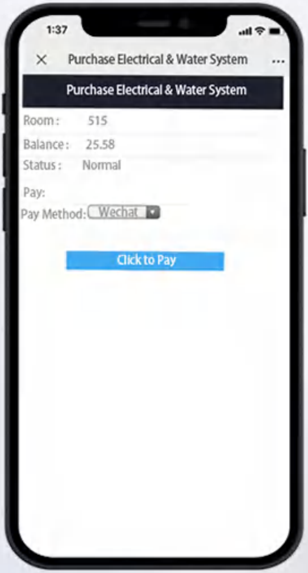
Mobile APP

WeChat official account

Small routine

More Convenient and Faster

Both WeChat and Alipay Can Be Used



Purchase Electrical & Water System

Room: 515

Balance: 25.58

Status: Normal

Pay:

Pay Method: Wechat

More functions,
Easily competent for multiple scenarios

Property

Property Management Fee

Multi-Rated Price

Commercial Centre

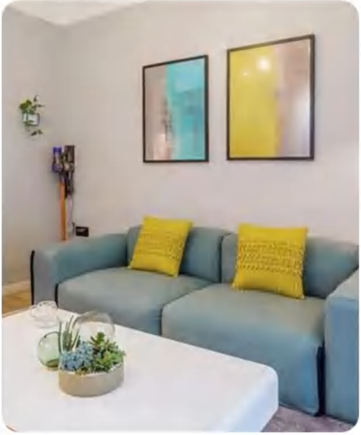
Electricity protection in arrears

Over power limit

School

Malignant load identification

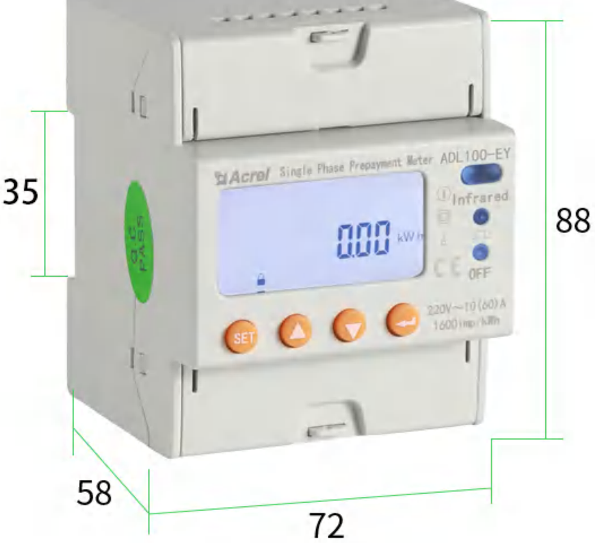
Electricity subsidy



Rental

Rent management

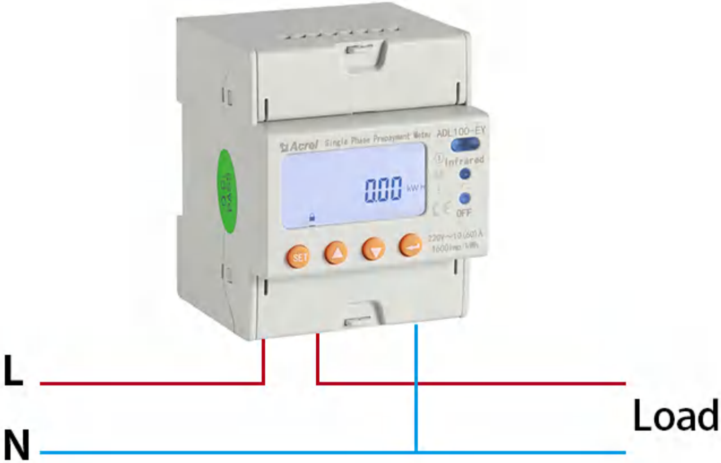
Parameter



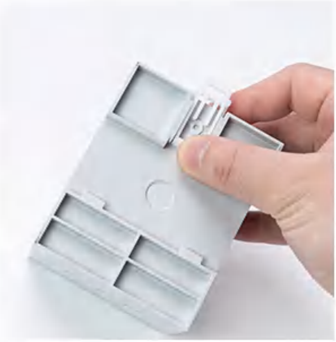
Function

Electric energy meterement	positive and negative electric energy of active power and reactive power
Electricity measurement	U、I、P、Q、S、PF、F
LCD Display	8-bit Segment LCD display, backlight display
LED Alarm	Trip alarm
Communication	Infrared communication, RS485 interface, support Modbus protocol and DL/T645 protocol
Prepayment protocols	Prepayment control, time control, load control, forced control
Wireless Method	4G, NB-Iot, Lora

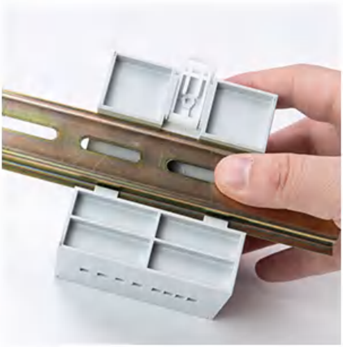
Wiring



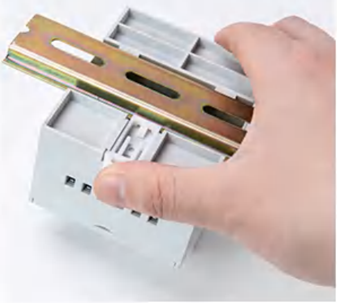
Installation



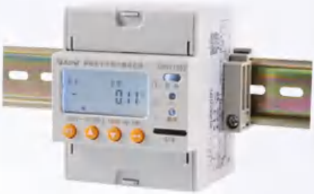
1. Push the buckle on the back of the meter away



2. Installed on 35mm guild rail

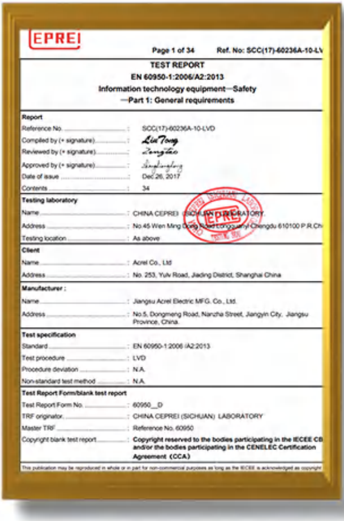


3. Push the buckle up



4. The meter be fixed

Certificate



EPREI

Page 1 of 34 Ref. No: SCC(17)-60236A-10-LV

TEST REPORT

EN 60950-1:2006/A2:2013

Information technology equipment—Safety

—Part 1: General requirements

Report

Reference No. ....: SCC(17)-60236A-10-LVD
Compiled by (+ signature)....: LiuTong
Reviewed by (+ signature)....: Zongtao
Approved by (+ signature)....:
Date of issue ....: Dec 26, 2017
Contents ....: 34

Testing laboratory

Name ....: CHINA CEPREI (SICHUAN) LABORATORY.
Address ....: No.45 Wen Ming Dong Road Longquanyi Chengdu 610100 P.R.Ch
Testing location ....: As above

Client

Name ....: Acrel Co., Ltd
Address ....: No. 253, Yulv Road, Jiading District, Shanghai China

Manufacturer :

Name ....: Jiangsu Acrel Electric MFG. Co., Ltd.
Address ....: No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China.

Test specification

Standard ....: EN 60950-1:2006 /A2:2013
Test procedure ....: LVD
Procedure deviation ....: N.A.
Non-standard test method ..: N.A.

Test Report Form/blank test report

Test Report Form No. ....: 60950_D
TRF originator. ....: CHINA CEPREI (SICHUAN) LABORATORY
Master TRF ....: Reference No. 60950
Copyright blank test report....: **Copyright reserved to the bodies participating in the IECEE CB and/or the bodies participating in the CENELEC Certification Agreement（CCA）**

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Installation Image

Common Problem

1

Difference between prepayment meter and measuring meter

Measuring meter focuses on diversified power data measurement, power parameter measurement and analysis, power quality measurement, etc; the prepayment table focuses on billing, alarm, control tripping, etc.

2

Why is this generation divided into card and internal control meter

The internal control meter supports remote recharge, reduces manpower, maintenance cost and improves user experience.

3

The reason to use wireless prepayment

Market development needs. Point dispersion, It is difficult to arrange the middle layer equipment or the layout cost is very high.

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 service for power system users and micro-grid.

PRODUCING WORKSHOP