

ADF300L 系列多用户计量箱

ADF300L series multi-user metering box

安装使用说明书 V1.1

Installation and operation instruction V1.1

江苏安科瑞电器制造有限公司

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申 明

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目录

1 概述 Overview.....	1
2 产品规格 Products model.....	1
3 技术参数 Technical parameters.....	1
3.1 电气特性 Electrical characteristics.....	1
3.2 机械特性 Mechanical characteristics.....	2
4 主要功能 Main functions.....	3
5 外形及安装尺寸（单位：mm） Outline and installation dimensions (unit: mm).....	3
5.1 使用注意事项 Precautions for use.....	3
5.2 产品尺寸 Product Size.....	4
6 接线与安装 Wiring and installation.....	5
7 功能说明 Function Description.....	6
7.1 有功电能计量 Active energy measurement.....	6
7.2 继电器控制（仅限预付费型） Relay control (prepaid type only).....	6
8 显示说明 Display Description.....	7
8.1 显示举例 Display example.....	7
9 通信说明 Communication Description.....	8
9.1 通信协议 Communication protocol.....	8
9.2 MODBUS 通信地址说明 MODBUS communication address description.....	8
9.3 MODBUS 通信地址表 MODBUS communication address table.....	9
10 常见故障排查 Common fault troubleshooting.....	23

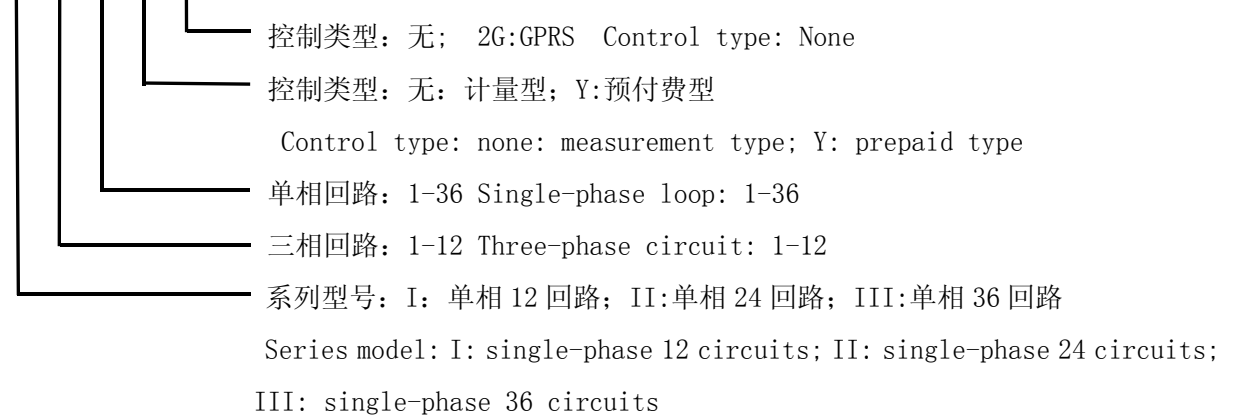
1 概述 Overview

ADF300L 系列多用户计量箱最大可以计量 12 路三相或者 36 路单相，又可以支持多路单三混合安装。该系列计量箱因准确度高、集中安装、集中管理、互不干扰等优势深受小区、学校、企业等的青睐。计量箱符合国标 GB/T 17215.321-2008。

The ADF300L series multi-user metering box can measure up to 12 three-phase or 36 single-phase, and can also support multi-channel single three mixed installation. This series of measuring boxes are favored by communities, schools, and enterprises due to their advantages such as high accuracy, centralized installation, centralized management, and non-interference. The measuring box conforms to the national standard GB / T 17215.321-2008.

2 产品规格 Products model

ADF300L-□-□S□D□-□



3 技术参数 Technical parameters

3.1 电气特性 Electrical characteristics

表 1 电气特性 Electrical characteristics

技术参数 Technical Parameters		型号 model	ADF300L-I	ADF300L-II	ADF300L-III
电压输入 Voltage input	额定电压 Rated voltage		3×220/380V		
	参比频率 Reference frequency		50Hz		
	功耗 Power consumption		<20VA		
电能计量 Energy measurement			总有功电能计量、总无功电能计量 (反向计入正向) Total active energy measurement, total reactive energy measurement (Reversely counted in the forward direction)		
电量测量 Electricity measurement			U、I、P、Q、S、PF、F		
显示 display			8 位段式 LCD 显示、背光显示 8-segment LCD display, backlight display		
开关量 Switch			8 路开关量输出 8 switching outputs		
电流输入	输入电流		最大	最大 3*250A	最大 3*250A

Current input	Input Current	3*200A maximum	maximum	maximum
	输出电流 Output Current	10(60)A		
	起动电流 Starting current	4%Ib		
测量性能 Measuring performance	测量精度 measurement accuracy	1 级 Level 1		
脉冲 pulse	脉冲输出 Pulse output	1 路有功脉冲输出 1 active pulse output		
	脉冲宽度 Pulse Width	80ms±20ms		
	脉冲常数 Pulse constant	1600 imp/kWh		
通信 Communication	接口 interface	红外通讯 Infrared communication		
	接口 interface	2 路 RS485 (通讯线需要屏蔽双绞线) 2 RS485 (communication line needs shielded twisted pair)		
	协议 protocol	MODBUS-RTU、DL/T 645-07		
环境 environment	温度 temperature	工作温度: -20℃~+60℃, 存储温度: -30℃~+70℃ Working temperature: -20 °C ~ + 60 °C, storage temperature: -30 °C ~ + 70 °C		
	湿度 humidity	≤95%RH, 不结露, 无腐蚀性气体场所 No condensation, no corrosive gas		
	海拔 altitude	≤2000m		

3.2 机械特性 Mechanical characteristics

表 2 机械特性 (单位: mm) Mechanical characteristics

机械特性 Mechanical characteristics	ADF300L-I	ADF300L-II	ADF300L-III
外形尺寸 (长×宽×高) Dimensions (Length × Width × Height)	332×376×132	492×376×132	672×376×132
最大接线能力 (柔性电缆) Maximum wiring capacity (Flexible cable)	电压进线电缆 (截面长方形) 为 25mm×9mm 电压出线电缆 (截面圆形) 为 25mm ² Voltage incoming cable (rectangular cross-section) is 25mm × 9mm Voltage outcoming cable (circular cross-section) is 25mm ²		
安装方式 Installation method	壁挂, 使用 4 个 M8 的螺丝固定 Wall-mounted, fixed with 4 M8 screws		

4 主要功能 Main functions

表 3 主要功能 Main functions

型号 model	类型 Type	最多用户 Most users	反窃电 Anti- stealing	远程 抄表 Remote meter reading	远程 控制 remote control	定时 控制 Timing control	强控 控制 Strong control	过载 保护 Overload protection	用电量查 询 Power consumption query	剩余电 量查询 Inquiry of remaining battery
ADF300L-I	计量型 Metering	4S 或 12D 4S or 12D	√	√					√	
	预付费型 Prepaid	4SY 或 12DY 4S or 12Y	√	√	√	√	√	√	√	√
ADF300L-II	计量型 Metering	8S 或 24D 8S or 24D	√	√					√	
	预付费型 Prepaid	8S 或 24DY 8S Or 24DY	√	√	√	√	√	√	√	√
ADF300L-III	计量型 Metering	12S 或 36D 12S or36D	√	√					√	
	预付费型 Prepaid	12SY Or 36DY	√	√	√	√	√	√	√	√

5 外形及安装尺寸 (单位: mm) Outline and installation dimensions

5.1 使用注意事项 Precautions

ADF300L 系列多用户计量箱使用进线需与配套塑壳断路器配合使用, 出线与配套微型断路器配合使用; 出线端子采用双螺丝拧紧, 严禁仅使用一只螺丝拧紧固定。

The ADF300L series multi-user metering box uses the incoming line to be used in conjunction with the matching molded case circuit breaker, and the outgoing line is used in conjunction with the matching miniature circuit breaker; the outgoing terminal is tightened with double screws, and it is strictly prohibited to use only one screw to fix it.

5.2 产品尺寸 Product Size

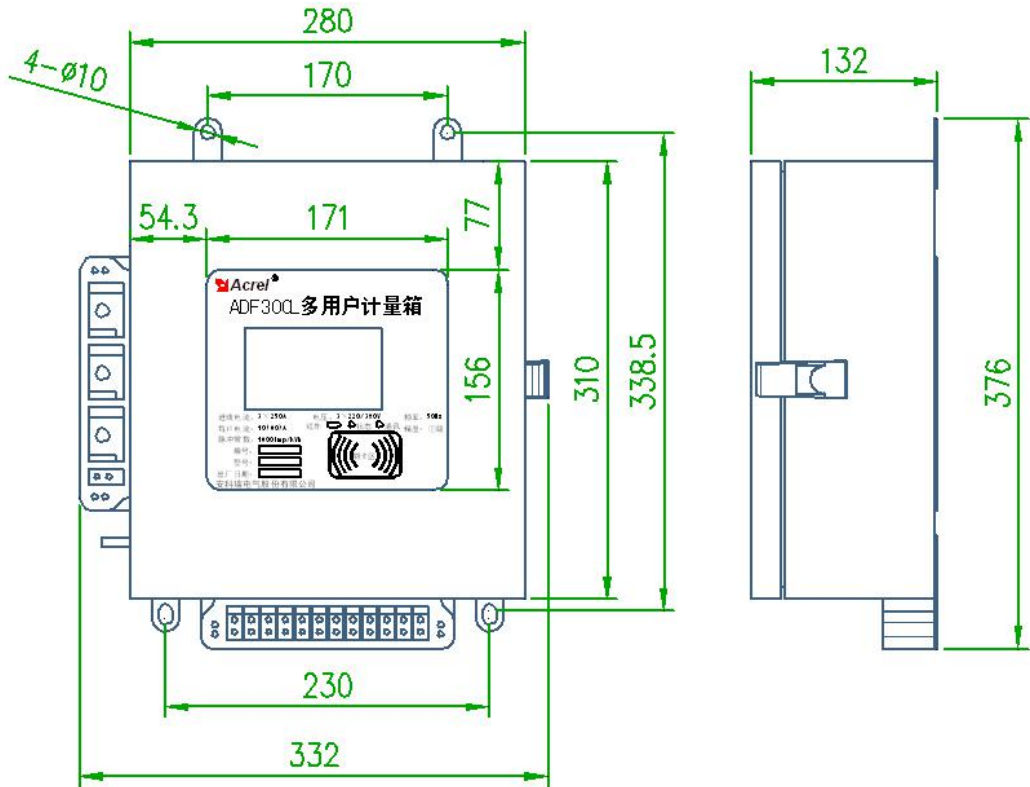


图 1 ADF300L-I 尺寸

Figure 1 ADF300L-I size

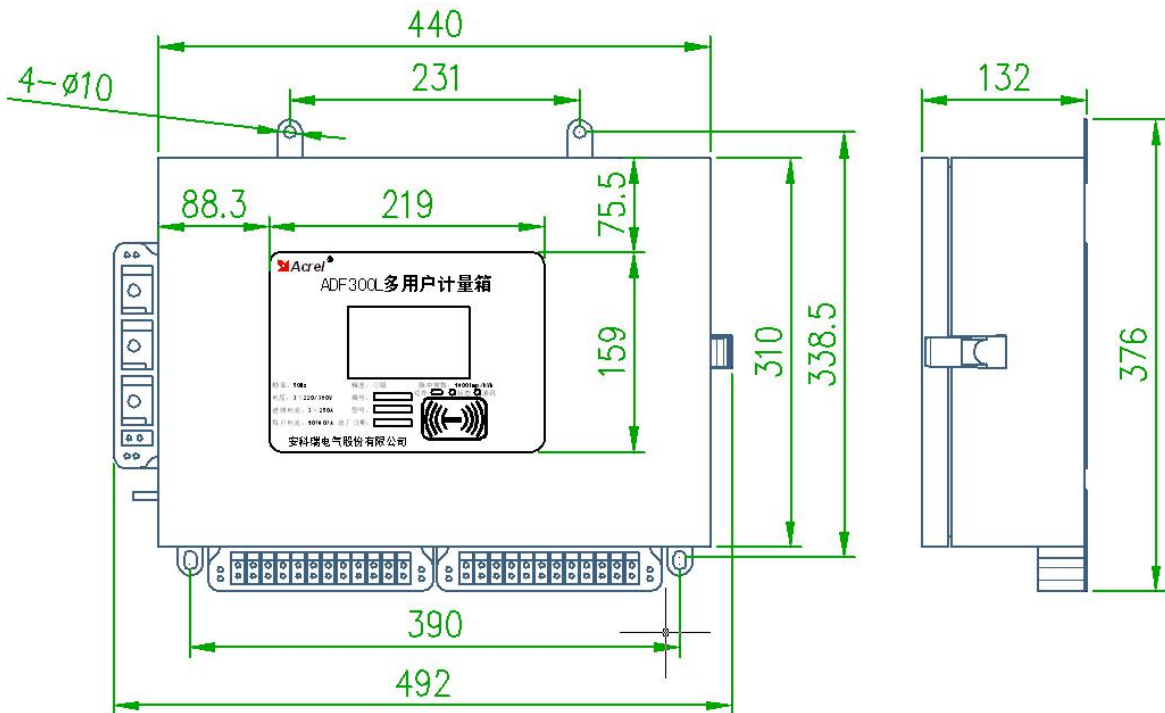


图 2 ADF300L-II 尺寸

Figure 2 ADF300L-II size

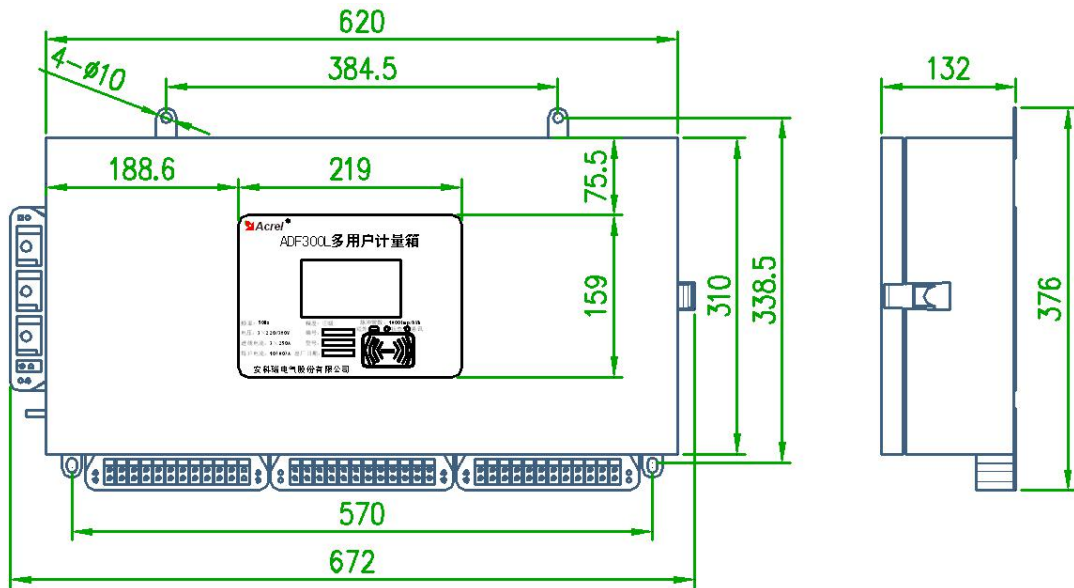


图 3 ADF300L-III 尺寸

Figure 3 ADF300L-III size

6 接线与安装 Wiring and installation

- ADF300L 系列多用户计量箱垂直悬挂在悬挂处，并用四个 M8 螺钉拧紧固定。
- ADF300L series multi-user metering box is hung vertically at the hanging place, and fastened with four M8 screws
- 注意接地线与箱子之间接触良好。
- Note that the ground wire is in good contact with the box.

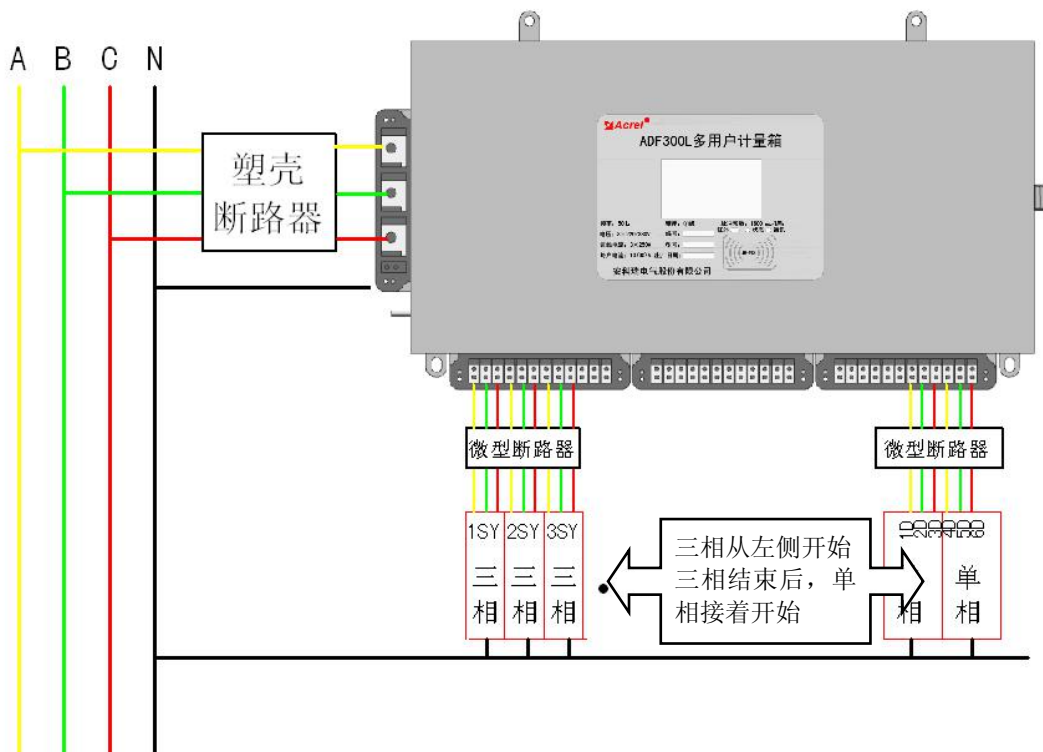


图 4 接线示意图 Figure 4 Wiring diagram

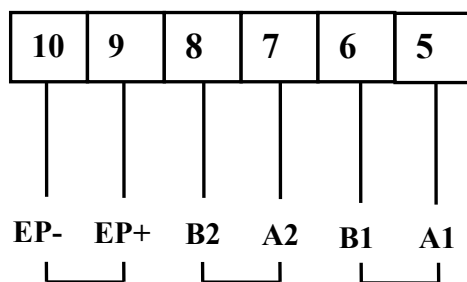


图 5 侧面端子接线

Figure 5 Side terminal wiring

7 功能说明 Function Description

7.1 有功电能计量 Active energy measurement

每块计量板均可计量每一用户总用电量，且反向计入正向。

Each metering board can measure the total electricity consumption of each user, and the reverse is included in the positive direction.

7.2 继电器控制（仅限预付费型）Relay control (prepaid type only)

7.2.1 无费关断（预付费控制）No-charge shutdown (prepaid control)

当用户用电时，递增用户总用电量，并递减计量用户剩余电量。当用户剩余电量为 0 时，电能表自动拉闸断电，只有用户购电后才可恢复用电。

When the user uses electricity, the user's total power consumption is incremented, and the user's remaining power is decremented. When the user's remaining power is 0, the energy meter automatically turns off the power, and the power can only be restored after the user purchases the power.

7.2.2 定时断电（时控）Timed power off (time control)

多用户电能表可对用户用电进行时间控制，电能表通过后台管理软件，设定自动断电、上电时间，方便对用户的用电管理。

The multi-user energy meter can control the time of the user's electricity. The energy meter can set the automatic power-off and power-on time through the background management software to facilitate the management of the user's electricity.

7.2.3 超负荷断电（负控）

Overload power off (negative control)

多用户电能表可设置用户的最大负荷功率，当用户的实际功率大于设定值时，计量箱自动切断该户供电电路，功率未超过最大负荷功率设定值，并且客户有恶性负载识别需求，计量箱可自动判断，如判断是恶性负载，则切断该用户供电，一段时间后(可设定)，可自动恢复供电，当恢复次数超过设定值时，不能自动恢复供电，用户必须手动清零恢复次数方可供电。

The multi-user energy meter can set the user's maximum load power. When the user's actual power is greater than the set value, the metering box automatically cuts off the household power supply circuit, the power does not exceed the maximum load power setting value, and the customer has a vicious load identification requirement, The metering box can be automatically judged. If it is

judged as a vicious load, the power supply of the user is cut off. After a period of time (settable), the power supply can be automatically restored. When the number of recovery exceeds the set value, the power supply cannot be automatically restored. The power can only be supplied after zero recovery times.

7.2.4 强制断电 (强控) Forced power off (strong control)

多用户计量箱可以由后台管理系统今次那个强制断电、送电控制、使管理中心可以及时的处理突发事件。
注意：以上四种控制中，当强控打开时，其它控制均无效。

The multi-user metering box can be controlled by the background management system for forced power off and power transmission, so that the management center can handle emergencies in a timely manner.

Note: In the above four controls, when the strong control is turned on, the other controls are invalid.

8 显示说明 Display Description

8.1 显示举例 Display example



图 6

Figure 6



图 7

Figure 7

图 6 用户 1 为三相跳闸用户，用电量 200 kWh，剩余金额为负 100 元；

Figure 6 User 1 is a three-phase trip user, the power consumption is 200 kWh, and the remaining amount is minus 100 yuan;

图 7 用户 2 为单相未跳闸用户，用电量 200 kWh，剩余金额为 100 元。

Figure 7 User 2 is a single-phase non-tripped user, the power consumption is 200 kWh and a remaining amount of 100 yuan.

9 通信说明 Communication Description

9.1 通信协议 Communication protocol

本电能表采用 MODBUS-RTU 协议及 DL/T645 规约。具体协议格式请参照相关协议标准，此处不再赘述。当复费率功能 F 未选用时，对应的复费率数据项无意义。

This electric energy meter adopts MODBUS-RTU protocol and DL / T645 protocol. For the specific protocol format, please refer to the relevant protocol standards, which will not be repeated here. When the multiple rate function F is not selected, the corresponding multiple rate data item is meaningless.

使用 Modbus 协议进行通讯时，读数据功能码为 03H，写数据功能码为 10H。

When using Modbus protocol for communication, the function code for reading data is 03H and the function code for writing data is 10H.

9.2 MODBUS 通信地址说明 MODBUS communication address description

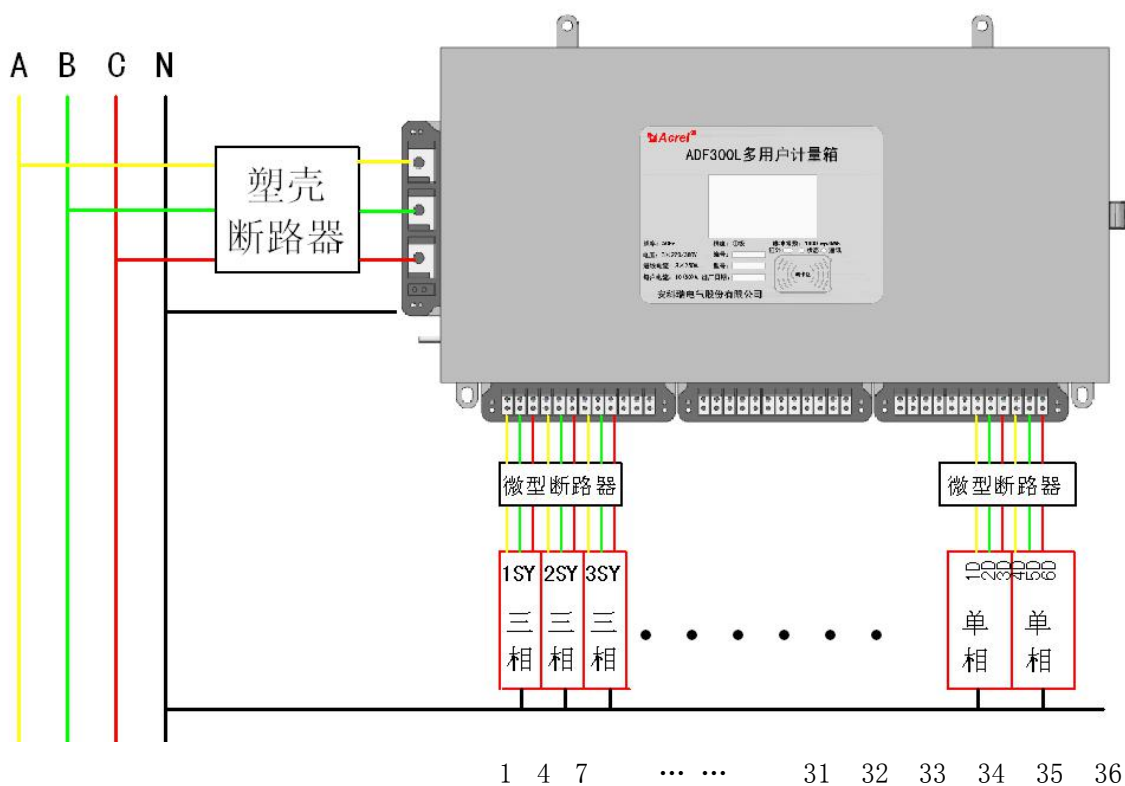


图 8 通讯地址示意

Figure 8 Communication address

如图 8: As shown in Figure 8:

对于 36 路计量箱，假设箱号为 N，则每一回路地址从左往右依次为 (N, N+1, N+2, ... N+35)，箱号可通过通讯设置。

For the 36-channel metering box, assuming that the box number is N, the address of each loop is (N, N + 1, N + 2, ... N + 35) from left to right, and the box number can be set by communication.

连接到同一总线上的箱号必须不同，且箱号的取值为 (1、 37 、 73....)；

Box numbers connected to the same bus must be different, and the value of the box number should be (1, 37, 73 ...)

左边三户为三相，通讯地址依次为 1、 4 、 7(箱号为 1)；

The three households on the left are three-phase, and the communication addresses are 1, 4, 7 (box number is 1)；

右边六户为单相，通讯地址从左到右依次为 31、 32、 33、 34、 35、 36。

The six households on the right are single-phase, and the communication addresses are 31, 32, 33, 34, 35, 36 from left to right.

9.3 MODBUS 通信地址表 Correspondence address table

表 4 通讯地址表 Correspondence address table

起始地址 starting address	数据项 data item	R/W	长度 length	基准单位 Benchmark unit	备注 Remarks
0x0300	单相电压 Single-phase voltage	R	2	0.1V	U (无符号整型, 下同)
0x0301	单相电流 Single-phase current	R	2	0.01A	U
0x0302	单相有功功率 Single-phase active power	R	2	0.001kW	I (有符号整型, 下同)
0x0303	单相无功功率 Single-phase reactive power	R	2	0.001kvar	I
0x0304	单相功率因数 Single-phase power factor	R	2	0.001	I
0x0305	单相频率 Single-phase frequency	R	2	0.01Hz	U
0x0306	单相有功电能 Single-phase active energy	R	4	0.01kWh	U
0x0307					

0x0308	单相无功电能	R	4	0.01kvarh	U
0x0309	Single-phase reactive energy				
0x030A	单相剩余电能	R	4	0.01 kWh	I
0x030B	Single-phase residual energy				
0x030C	单相总购电量	R	4	0.01 kWh	U
0x030D	Single-phase total power				
0x030E	单相购电次数	R	2	/	U
0x030F	单相基础电量	R	4	0.01 kWh	U
0x0310	Single-phase basic power				
0x0311	单相状态字	R	2	/	U
0x0312	单相基础电量剩余	R	4	0.01 kWh	I
0x0313	Single-phase basic power remaining				
0x0314	保留	R	2	/	U
0x033F	A相电压	R	2	0.1V	U
0x0340	A Phase voltage				
0x0340	B相电压	R	2	0.1V	U
0x0341	B Phase voltage				
0x0341	C相电压	R	2	0.1V	U
0x0342	C Phase voltage				
0x0342	A相电流	R	2	0.01A	U
0x0343	A Phase current				
0x0343	B相电流	R	2	0.01A	U
0x0344	B Phase current				
0x0344	C相电流	R	2	0.01A	U
0x0345	C Phase current				
0x0345	总有功功率	R	2	1W	I
0x0346	A相有功功率	R	2	0.001kW	I
0x0347	A Phase active power				
0x0347	B相有功功率	R	2	0.001kW	I
0x0348	B Phase active power				
0x0348	C相有功功率	R	2	0.001kW	I
0x0348	C Phase active power				

0x0349	总无功功率 Total reactive power	R	2	0.001kvar	I
0x034A	A相无功功率 A Phase reactive power	R	2	0.001kvar	I
0x034B	B相无功功率 B Phase reactive power	R	2	0.001kvar	I
0x034C	C相无功功率 C Phase reactive power	R	2	0.001kvar	I
0x034D	总功率因数 Total power factor	R	2	0.001	I
0x034E	A相功率因数 A Phase power factor	R	2	0.001	I
0x034F	B相功率因数 B Phase power factor	R	2	0.001	I
0x0350	C相功率因数 C Phase power factor	R	2	0.001	I
0x0351	频率 frequency	R	2	0.01Hz	U
0x0352	A相有功电能 A Phase active energy	R	4	0.01 kWh	U
0x0353					
0x0354	B相有功电能 B Phase active energy	R	4	0.01 kWh	U
0x0355					
0x0356	C相有功电能 C Phase active energy	R	4	0.01 kWh	U
0x0357					
0x0358	A相无功电能 A Phase reactive energy	R	4	0.01kvarh	U
0x0359					
0x035A	B相无功电能 B Phase reactive energy	R	4	0.01kvarh	U
0x035B					
0x035C	C相无功电能 C Phase reactive energy	R	4	0.01kvarh	U
0x035D					
0x035E	总有功电能 Total active energy	R	4	0.01 kWh	U
0x035F					
0x0360	总无功电能 Total reactive energy	R	4	0.01kvarh	U
0x0361					

0x0362	剩余金额	R	4	0.01 元	I
0x0363	remaining amount				
0x0364	总购电金额	R	4	0.01 元	U
0x0365	Total power purchase amount				
0x0366	购电次数	R	2	/	U
	Number of power purchases				
0x0367	基础金额	R	4	0.01 元	U
0x0368	Base amount				
0x0369	运行状态字	R	2	/	U
	Running status word				
0x036A	基础电量剩余	R	4	0.01 元	U
0x036B	Basic battery remaining				
0x036C	保留	R	2	/	U
	Retaining				
复费率区 Multiple rate zone					
0x0400	单相有功尖电能	R/W	4	0.01 kWh	U
0x0401	Single-phase active sharp energy				
0x0402	单相有功峰电能	R/W	4	0.01 kWh	U
0x0403	Single-phase active peak energy				
0x0404	单相有功平电能	R/W	4	0.01 kWh	U
0x0405	Single-phase active flat energy				
0x0406	单相有功谷电能	R/W	4	0.01 kWh	U
0x0407	Single-phase active Valley energy				
0x0408	单相无功尖电能	R/W	4	0.01kvar h	U
0x0409	Single-phase reactive sharp energy				
0x040A	单相无功峰电能	R/W	4	0.01kvar h	U
0x040B	Single-phase reactive peak energy				
0x040C	单相无功平电能	R/W	4	0.01kvar h	U
0x040D	Single-phase reactive flat energy				

0x040E	单相无功谷电能	R/W	4	0.01kvar h	U
0x040F	Single-phase reactive Valley energy				
0x0430	三相有功尖电能	R/W	4	0.01 kWh	U
0x0431	three-phase active sharp energy				
0x0432	三相有功峰电能	R/W	4	0.01 kWh	U
0x0433	three-phase active peak energy				
0x0434	三相有功平电能	R/W	4	0.01 kWh	U
0x0435	three-phase active flat energy				
0x0436	三相有功谷电能	R/W	4	0.01 kWh	U
0x0437	three-phase active valley energy				
0x0438	三相无功尖电能	R/W	4	0.01kvar h	U
0x0439	three-phase reactive sharp energy				
0x043A	三相无功峰电能	R/W	4	0.01kvar h	U
0x043B	three-phase reactive peak energy				
0x043C	三相无功平电能	R/W	4	0.01kvar h	U
0x043D	three-phase reactive flat energy				
0x043E	三相无功谷电能	R/W	4	0.01kvar h	U
0x043F	three-phase reactive valley energy				
预付费区 Prepaid area					
0x0500	单相预付费开关	R/W	2	/	U
0x0501	单相尖电价	R/W	4	0.01 元 /kWh	U
0x0502	Single-phase sharp electricity price				
0x0503	单相峰电价		4		U
0x0504	Single-phase peak electricity price				

0x0505	单相平电价				
0x0506	Single-phase flat electricity price		4		U
0x0507	单相谷电价				
0x0508	Single-phase valley electricity price		4		U
0x0509	单相报警金额 1	R/W	4	0.01 元	U
0x050A	Single-phase alarm amount 1				
0x050B	单相报警金额 2	R/W	4	0.01 元	U
0x050C	Single-phase alarm amount 2				
0x050D	单相新购电金额	R/W	4	0.01 元	U
0x050E	Single-phase new power purchase amount				
0x050F	单相购电次数 Number of single-phase power purchases	R/W	2	/	U
0x0510	单相基础金额	R/W	4	0.01 元	U
0x0511	Single phase basic amount				
0x0512	单相预付费开关 Single-phase prepaid switch	R/W	2	/	U
0x0536	三相预付费开关 Three-phase prepaid switch	R/W	2	/	
0x0537	三相尖电价				
0x0538	Three-phase sharp electricity price		4		U
0x0539	三相峰电价				
0x053A	Three-phase peak electricity price		4		U
0x053B	三相平电价	R/W	4	0.01 元 /kWh	U
0x053C	Three-phase flat electricity price				
0x053D	三相谷电价				
0x053E	Three-phase valley electricity price		4		U
0x053F	三相报警金额 1	R/W	4	0.01 元	U
0x0540	Three-phase alarm amount 1				

0x0541	三相报警金额 2	R/W	4	0.01 元	U
0x0542	Three-phase alarm amount 2				
0x0543	三相新购电金额	R/W	4	0.01 元	U
0x0544	Three-phase new power purchase amount				
0x0545	三相购电次数 Number of three-phase power purchases	R/W	2	/	U
0x0546	三相基础金额	R/W	4	0.01 元	U
0x0547	Three-phase basic amount				
时控区 Time zone					
0x0600	单相时控开关 Single-phase time-controlled switch	R/W	2		U
0x0601	开关 1, 时 1 Switch 1, hour 1	R/W	8 x 3		单相工作日时控表 U
0x0602	分 1, 开关 2 Minute 1, switch 2				
0x0603	时 2, 分 2 Hour 2, minute 2				
0x0604	开关 3, 时 3 Switch 3, hour 3				
0x0605	分 3, 开关 4 Minute 3, Switch 4				
0x0606	时 4, 分 4 Hour 4, minute 4				
0x0607	开关 5, 时 5 Switch 5, hour 5				
0x0608	分 5, 开关 6 minute 5, switch 6				
0x0609	时 6, 分 6 Hour 6, minute 6				
0x060A	开关 7, 时 7 Switch 7, hour 7				
0x060B	分 7, 开关 8 minute 7, switch 8				

0x060C	时 8, 分 8 Hour 8, minute 8				
0x060D	开关 1, 时 1 Switch 1, hour 1	R/W	8 x 3		单相休息日时控表 U
0x060E	分 1, 开关 2 minute 1, switch 2				
0x060F	时 2, 分 2 Hour 2, minute 2				
0x0610	开关 3, 时 3 Switch 3, hour 3				
0x0611	分 3, 开关 4 minute 3, switch 4				
0x0612	时 4, 分 4 Hour 4, minute 4				
0x0613	开关 5, 时 5 Switch 5, hour 5				
0x0614	分 5, 开关 6 minute 5, switch 6				
0x0615	时 6, 分 6 Hour 6, minute 6				
0x0616	开关 7, 时 7 Switch 7, hour 7				
0x0617	分 7, 开关 8 minute 7, switch 8				
0x0618	时 8, 分 8 Hour 8, minute 8				
0x0619	单相休息日设置字 Single phase rest day set word				
0x064E	三相时控开关 Three-phase time-controlled switch	R/W	2		U
0x064F	开关 1, 时 1 Switch 1, hour 1	R/W	8 x 3	/	三相工作日时控表 U
0x0650	分 1, 开关 2 minute 1, switch 2				
0x0651	时 2, 分 2 Hour 2, minute 2				
0x0652	开关 3, 时 3 Switch 3, hour 3				
0x0653	分 3, 开关 4 minute 3, switch 4				
0x0654	时 4, 分 4 Hour 4, minute 4				

0x0655	开关 5, 时 5 Switch 5, hour 5				
0x0656	分 5, 开关 6 minute 5, switch 6				
0x0657	时 6, 分 6 Hour 6, minute 6				
0x0658	开关 7, 时 7 Switch 7, hour 7				
0x0659	分 7, 开关 8 minute 7, switch 8				
0x065A	时 8, 分 8 Hour 8, minute 8				
0x065B	开关 1, 时 1 Switch 1, hour 1				
0x065C	分 1, 开关 2 Minute 1, switch 2				
0x065D	时 2, 分 2 Hour 2, minute 2				
0x065E	开关 3, 时 3 Switch 3, hour 3				
0x065F	分 3, 开关 4 Minute 3, switch 4				
0x0660	时 4, 分 4 Hour 4, minute 4				
0x0661	开关 5, 时 5 Switch 5, hour 5	R/W	8 x 3		三相休息日时控表 U
0x0662	分 5, 开关 6 Minute 5, switch 6				
0x0663	时 6, 分 6 Hour 6, minute 6				
0x0664	开关 7, 时 7 Switch 7, hour 7				
0x0665	分 7, 开关 8 Minute 7, switch8				
0x0666	时 8, 分 8 Hour 8, minute 8				
0x0667	三相休息日设置字 Three-phase rest day setting word	R/W	2	/	U
负控区 Negative control area					
0x0700	单相负控开关 Single-phase negative control switch	R/W	2	/	U

0x0701	单相最大功率阈值 Single-phase maximum power threshold	R/W	2	0.001kW	U
0x0702	单相有功增量阈值 Single-phase active power increment threshold	R/W	2	0.001kW	U
0x0703	单相功率因数阈值 Single-phase power factor threshold	R/W	2	/	U
0x0704	单相负控次数 Single-phase negative control times	R/W	2	/	U
0x0705	单相负控允许次数 Single-phase negative control allowed times	R/W	2	/	U
0x0706	单相负控恢复时间 Single-phase negative control recovery time	R/W	2	10s	U
0x0707	单相失压阈值 Single-phase voltage loss threshold	R/W	2	0.1V	U
0x0718	三相负控开关 Three-phase negative control switch	R/W	2	/	U
0x0719	三相最大功率阈值 Three-phase maximum power threshold	R/W	2	0.001kW	U
0x071A	三相有功增量阈值 Three-phase active power increment threshold	R/W	2	0.001kW	U
0x071B	三相功率因数阈值 Three-phase power factor threshold	R/W	2	/	U
0x071C	三相负控次数 Three-phase negative control times	R/W	2	/	U

0x071D	三相负控允许次数 Three-phase negative control allowed times	R/W	2	/	U
0x071E	三相负控恢复时间 Three-phase negative control recovery time	R/W	2	10s	U
0x071F	三相失压阈值 Three-phase voltage loss threshold	R/W	2	0.1V	U
强控区 Strong control area					
0x0800	单三相类别 Single three-phase category	R/W	2	/	0: 三相, 1: 单相 0: three-phase, 1: single-phase
0x0801	单相强控控制字 Single-phase strong control word	R/W	2	/	高位 1: 打开, 低位 1: 闭合 High bit 1: open, low bit 1: closed
0x0804	三相强控控制字 Three-phase strong control word	R/W	2	/	高位 1: 打开, 低位 1: 闭合 High bit 1: open, low bit 1: closed
系统参数区 System parameter area					
0x0900	地址 1 Address 1	R/W	2	/	0~247
0x0901	波特率 1 Baud rate 1	R/W	2	/	
0x0902	密码 password	R/W	2	/	
0x0903	三相回路数 Number of three-phase circuits	R/W	2	/	0~12
0x0904	单相回路数 Number of single-phase circuits	R/W	2	/	0~36
0x0905	DLT645 地址 1, 2 DLT645 Address 1, 2	R/W	2	/	BCD 码
0x0906	DLT645 地址 3, 4 DLT645 Address 3, 4	R/W	2	/	BCD 码

0x0907	DLT645 地址 5, 6 DLT645 Address 5, 6	R/W	2	/	BCD 码
0x0908	协议选择 Protocol selection	R/W	2	/	Modbus 或者 DLT645 选择 Modbus or DLT645 options
0x0909	强控标记 Strong control mark	R/W	2	/	未启用 Not activated
0x090A	IC 卡是否使能 Whether the IC card is enabled	R/W	2	/	
0x090B	秒/分 Sec / min	R/W	2	/	
0x090C	时/星期 Hour / week	R/W	2	/	
0x090D	日/月 Day / month	R/W	2	/	
0x090E	年/预留 Year / Reservation	R/W	2	/	
0x090F	类型 (单相回路数) Type (number of single-phase circuits)	R/W	2	/	0:36 1:24 2:12
0x0910	总单相回路数 Total number of single-phase circuits	R/W	2	/	箱体总回路数 (单相)
0x0911	地址 2 Address 2	R/W	2	/	第二路通讯地址
0x0912	波特率 2 Baud rate 2	R/W	2	/	第二路通讯波特率
0x0913	空缺下板控制字 Vacant lower board control word	R/W	2	/	未启用
0x0914	时段 1, 时 1 period 1, hour 1	R/W	14 x 3		复费率时段 1 U
0x0915	分 1, 时段 2 Minute 1, period 2				
0x0916	时 2, 分 2 Hour 2, minute 2				
0x0917	时段 3, 时 3 period 3, hour 3				
0x0918	分 3, 时段 4 Minute 3, period 4				
0x0919	时 4, 分 4				

	Hour 4, minute 4			
0x091A	时段 5, 时 5 period 5, hour 5			
0x091B	分 5, 时段 6 Minute 5, period 6			
0x091C	时 6, 分 6 Hour 6, minute 6			
0x091D	时段 7, 时 7 period 7, hour 7			
0x091E	分 7, 时段 8 Minute 7, period 8			
0x091F	时 8, 分 8 Hour 8, minute 8			
0x0920	时段 9, 时 9 period 9, hour 9			
0x0921	分 9, 时段 10 Minute 9, period 10			
0x0922	时 10, 分 10 Hour 10, minute 10			
0x0923	时段 11, 时 11 period 11, hour 11			
0x0924	分 11, 时段 12 Minute 11, period 12			
0x0925	时 12, 分 12 Hour 12, minute 12			
0x0926	时段 13, 时 13 period 13, hour 13			
0x0927	分 14, 时段 14 Minute 14, period 14			
0x0928	时 14, 分 14 Hour 14, minute 14			
0x0929	时段 1, 时 1 period 1, hour 1	R/W	14 x 3	
0x092A	分 1, 时段 2 Minute 4, period 2			
0x092B	时 2, 分 2 Hour 2, minute 2			
0x092C	时段 3, 时 3 period 3, hour 3			
0x092D	分 3, 时段 4 Minute 3, period 4			
0x092E	时 4, 分 4 Hour 4, minute 4			
0x092F	时段 5, 时 5			

复费率时段表 2

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	period 5, hour 5			
0x0930	分 5, 时段 6 Minute 5, period 6			
0x0931	时 6, 分 6 Hour 6, minute 6			
0x0932	时段 7, 时 7 period 7, hour 7			
0x0933	分 7, 时段 8 Minute 7, period 8			
0x0934	时 8, 分 8 Hour 8, minute 8			
0x0935	时段 9, 时 9 period 9, hour 9			
0x0936	分 9, 时段 10 Minute 9, period 10			
0x0937	时 10, 分 10 Hour 10, minute 10			
0x0938	时段 11, 时 11 Period 11, hour 11			
0x0939	分 11, 时段 12 Minute 11, period 12			
0x093A	时 12, 分 12 Hour 12, minute 12			
0x093B	时段 13, 时 13 Period 13, hour 13			
0x093C	分 14, 时段 14 Minute 14, period 14			
0x093D	时 14, 分 14 Hour 14, minute 14			
0x093E	时段表号/日期: 日 Timetable No./Date: Day	R/W	4 x 3	
0x093F	日期: 月/时段表号 Date: Month / Time Table Number			
0x0940	日期: 日/日期: 月 Date: Day / Date: Month			
0x0941	时段表号/日期: 日 Timetable No./Date: Day			
0x0942	日期: 月/时段表号 Date: Month / Time Table Number			

时区表
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0x0943	日期：日/日期：月 Date: Day / Date: Month				
0x0944	订单编号 1, 2 Order number 1, 2				U
0x0945	订单编号 3, 4 Order number 3, 4				U
0x0946	背光时间 Backlight time				U

10 常见故障排查 Common fault troubleshooting

- 无法通讯 Unable to communicate

检查通讯线连接是否可靠，485A，485B 是否对应连接；

Check whether the communication cable connection is reliable, and whether 485A and 485B correspond to the connection;

进入菜单设置项观察地址与波特率选项是否设置正确；

Enter the menu setting item and observe whether the address and baud rate options are set correctly;

用万用表测量 485A，485B 口的电压是否为 4V 左右，若改箱体已接入 485 总线，测量时需先将箱体的 485 线与总线脱离。

Use a multimeter to measure whether the voltage of the 485A and 485B ports is about 4V. If the cabinet is connected to the 485 bus, the 485 line of the cabinet must be disconnected from the bus before measuring.

- 仪表测量电压电流不正常

- The instrument measures abnormal voltage and current

检查接线是否正确，接头处是否压紧。

Check whether the wiring is correct and the joints are tight.

- 功率测量不正常

- Power measurement is abnormal

检查进线 ABC 相序是否正确。

Check that the incoming ABC phase sequence is correct.

有关控制类的命令下发由于篇幅原因不在说明书中详述，如有需要请联系我司客服。

The ordering of control commands is not detailed in the manual due to space reasons. If necessary, please contact our customer service.

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