

ADW3 1 0 Wireless Meter

Installation and Instruction Manual V 1. 0

declare

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The company reserves the right to modify the product specifications described in the manual without prior notice. Before ordering, please consult your local distributor for current specifications of this product.

Manual revision record

date	old version	new	Remark
		version	
202 2/8/8 _		V1.0	1. The first edition of the manual;



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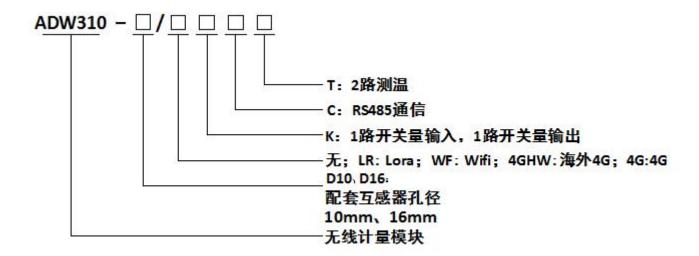
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1 Overview

ADW310 wireless measuring instrument is mainly used to measure the active energy of low-voltage network. It has the advantages of small size, high precision, rich functions, etc., and has many optional communication methods, which can support RS485 communication and Lora, 4G and other wireless communication methods, increasing the The current sampling mode of the external transformer is convenient for users to install and use in different occasions. It can be flexibly installed in the distribution box to meet the needs of power metering, operation and maintenance supervision or power monitoring for different areas and different loads.

2 Product model specifications and functional characteristics

2.1 ADW310 wireless meter naming rules



of ADW310 Wireless Metering Instrument

Table 1 ADW3 1 0 main functions

Table 1 ADW3 1 0 Hall functions					
Function	Function Description				
Display method	LCD (field type)				
Energy metering	Active energy metering (forward, reverse),				
Floatricity magaurament	Voltage, current, power factor, frequency, active				
Electricity measurement	power, reactive power, apparent power				
Harmonic function	Total harmonic content, sub-harmonic content (2				
Harmonic function	to 31 times)				
Pulse output	Active pulse output				
Temperature measurement	Tura was taman and was managed (and in all T)				
function	Two- way temperature measurement (optional T)				
DI/DO	1 DI, 1 DO (optional K)				
LED indication	Pulse light indication				
External transformer	External open type transformer				
Clastria parameter alarm	Undervoltage, overvoltage, undercurrent,				
Electric parameter alarm	overcurrent, underload, overload, etc.				
	RS485 interface (optional C)				
communication	470MHz wireless transmission (optional LR)				
	4G wireless transmission (optional 4G)				
	WIFI wireless communication (optional WF)				

3Technical parameters

3.1 Electrical Characteristics

Table 2 ADW3 1 0 electrical characteristics

Voltage input Rated voltage 220V reference 50Hz frequency 70.5VA per phase Power <0.5VA per phase consumption Input Current Starting 1%lb (grade 0.5S), 4%lb (grade 1) current Power consumption <1VA per phase consumption Supply voltage AC 85~265V Power <2W consumption Standards compliant GB/T17215.322-200 8 , GB / T17215.321-200 8 compliant Active energy performance ±2°C temperature ±2°C accuracy ±2°C pulse Pulse Width 80±20ms Pulse constant 1600 imp/kWh communication interface RS485 (A, B) medium shielded twisted pair protocol MODBUS-RTU, DL/T 645-07	Table 2 ADW3 1 0 electrical characteristics					
Voltage input frequency Power consumption <0.5VA per phase		Rated voltage	220V			
Power consumption Input Current AC 20(100)A Starting 11/wlb (grade 0.5S), 4/wlb (grade 1) current Power <1VA per phase consumption Supply voltage AC 85~265V Power consumption Standards GB/ T17215.322-200 8 , GB / T17215.321-200 8 Compliant Measuring performance performance pulse Pulse Width B0±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G medium shielded twisted pair		reference	50Hz			
Current input Input Current Starting AC 20(100)A Current input Starting 1%lb (grade 0.5S), 4%lb (grade 1) Power consumption <1VA per phase	Voltage input	frequency				
Input Current AC 20(100)A		Power	<0.5VA per phase			
Current input Starting current		consumption				
Current input Power		Input Current	AC 20(100)A			
Power consumption Supply voltage AC 85~265V Power consumption Standards Compliant Measuring performance performance Pouse Couracy temperature accuracy Pulse Width B0±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G medium shielded twisted pair		Starting	1‰lb (grade 0.5S), 4‰lb (grade 1)			
consumption Supply voltage AC 85~265V Power	Current input	current				
Auxiliary power Power Consumption Standards Compliant Active energy accuracy temperature accuracy Pulse Wireless Pulse Order Aromhrz Wireless Pulse Standards Communication Interface RS485 (A, B) medium shielded twisted pair		Power	<1VA per phase			
Auxiliary power Power consumption Standards Compliant Active energy accuracy temperature accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G interface RS485 (A, B) medium shielded twisted pair		consumption				
Consumption Standards Compliant Measuring Performance Active energy temperature accuracy Temperature accuracy Pulse Width Pulse constant Wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G interface RS485 (A, B) medium Standards GB/ T17215.322-200 8 , GB / T17215.321-200 8 GB/ T17215.321-200 8 FURSION OF TIME OF		Supply voltage	AC 85~265V			
Standards compliant Measuring performance Active energy accuracy temperature accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G communication interface RS485 (A, B) medium shielded twisted pair	Auxiliary power	Power	< 2W			
Measuring performance Active energy Level 1 accuracy temperature ±2°C accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G communication interface RS485 (A, B) medium shielded twisted pair		consumption				
Measuring performance Active energy accuracy temperature accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G communication interface RS485 (A, B) medium shielded twisted pair		Standards	GB/ T17215.322-200 8 , GB / T17215.321-200 8			
performance accuracy temperature ±2°C accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G interface RS485 (A, B) medium shielded twisted pair		compliant				
temperature accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G communication interface RS485 (A, B) medium shielded twisted pair	Measuring	Active energy	Level 1			
accuracy Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G interface RS485 (A, B) medium shielded twisted pair	performance	accuracy				
Pulse Width 80±20ms Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G communication interface RS485 (A, B) medium shielded twisted pair		temperature	±2°C			
Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G communication interface RS485 (A, B) medium shielded twisted pair		accuracy				
Pulse constant 1600 imp/kWh wireless 470MHz wireless transmission, transmission distance in open space: 1km; 4G interface RS485 (A, B) medium shielded twisted pair		Pulse Width	80±20ms			
communication	puise	Pulse constant	1600 imp/kWh			
communication interface RS485 (A, B) medium shielded twisted pair		wireless	470MHz wireless transmission, transmission distance in open space:			
medium shielded twisted pair			1km; 4G			
·	communication	interface	RS485 (A, B)			
protocol MODBUS-RTU, DL/T 645-07		medium	shielded twisted pair			
		protocol	MODBUS-RTU, DL/T 645-07			

3.2 Environmental conditions

Table 3 ADW3 1 0 Environmental Conditions

• • • • • • • • • • • • • • • • • • • •	abic 07 (B 110	. o Environmental Containone
temperature	Operating	-2 5 °C ~ 55 °C
range	temperature	
	storage	- 40 °C ~ 70 °C
	temperature	
humidity		≤95% (no condensation)
altitude		<2000m

4 Dimensions and installation instructions (unit: mm)

4.1 Dimensions (unit: mm)

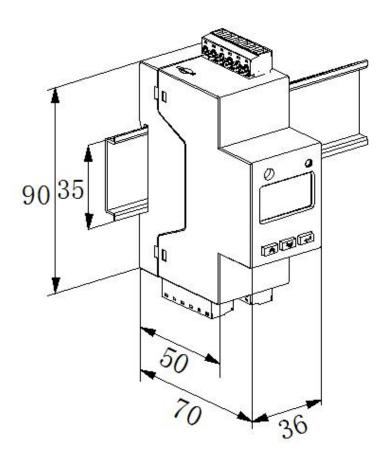
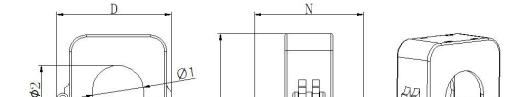


Figure 1 ADW3 1 0 effect size chart

(2) Dimensions of supporting transformers

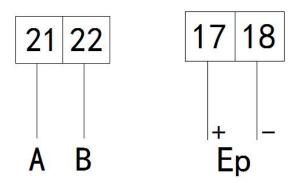
Table 5 Specifications and Dimensions of Supporting Transformers

	Dimensions (mm)					Perforat	Tolerance	
Specification	W	Н	D	М	N	Ф1	Ф2	(mm)
AKH-0.66/K- Ø 10N	27	44	32	25	36	10	9	
AKH-0.66/K-∅ 16N	31	50	36	27	42	16	17	±1



Matching transformer size chart

4.2 RS485 communication terminal, pulse output terminal

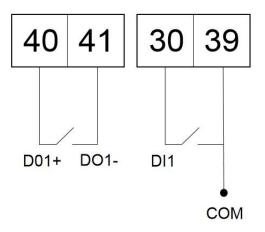


Communication interface pulse port

4.3 Switch input/output terminals

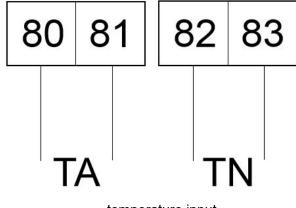
The switch input is the switch signal input method, the instrument is equipped with +12V working power supply, no external power supply is required. When the external connection is turned on or off, the on or off information is collected through the instrument switch input module and displayed locally by the instrument. The switch input can not only collect and display the local switch information, but also realize the remote transmission function through the RS485 of the instrument, that is, the "remote signal" function.

Switch output is relay output, which can realize "remote control" and alarm output.



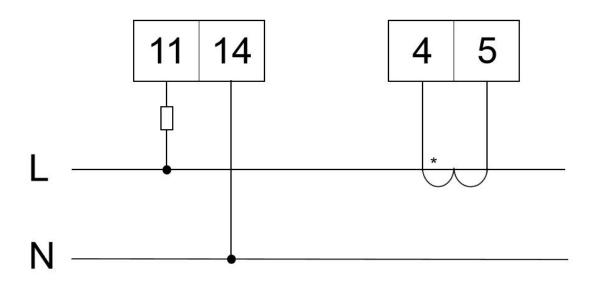
Switch input and output

4.4 Temperature measuring terminal



temperature input

4.5 Wiring Instructions



5 Main Features

5.1 Measurement function

It can measure all power parameters including voltage U, current I, active power P, reactive power Q, apparent power S, power factor PF, phase angle Φ between voltage and current, frequency F, 31st harmonic, parity Total harmonic content and total harmonic content. Among them, the voltage U has 1 decimal place, the frequency F has 2 decimal places, the current I has 3 decimal places, the power P has 4 decimal places, and the phase angle Φ has 2 decimal places.

Such as: U = 220.1V, f = 49.98HZ, I = 1.999A, P = 0.2199KW, $\Phi = 60.00^{\circ}$.

Support 2 -way temperature measurement, temperature measurement range: -40 ~ 99 °C, accuracy ±2 °C

5.2 Metering function

It can measure the current combined active energy, forward active energy, reverse active energy, inductive reactive energy, capacitive reactive energy, and apparent energy.

5.3 Time-sharing function

Two sets of timetables, one year can be divided into 4 time zones, each set of timetables can set 12 daily time periods, 4 rates (F1, F2, F3, F4 are peaks and valleys). The basic idea of time-of-use billing is to use electric energy as a commodity, using economic leverage, the electricity price is high during the peak period of electricity consumption, and the electricity price is low when the valley is low, so as to cut the peak and fill the valley, improve the quality of electricity consumption, and improve the overall economic benefits.

5.4 Demand function

The concepts related to demand are as follows:

demand	The average power measured during the demand period is called demand			
maximum	The maximum demand in a specified time zone is called the maximum			
demand	demand			
	From any moment, the method of recursively measuring demand according			
slip time	to the time less than the demand period, the measured demand is called slip			
	demand. The recursion time is called slip time			
demand	Continuous measurement of average power at equal time intervals, also			
cycle	called window time			

The default demand period is 15 minutes and the slip time is 1 minute.

It can measure 8 kinds of maximum demands, namely A/B/C three-phase current, forward active power, reverse active power, inductive reactive power, capacitive reactive power, apparent power maximum demand and the time when the maximum demand occurs.

Displays 8 real-time demands, namely A/B/C three-phase current, forward active power, reverse active power, inductive reactive power, capacitive reactive power, and apparent power demand.

5.5 Historical energy statistics function

It can count the historical electric energy in December (including 4 quadrants and electric energy at various rates)

5.6 Switch input and output functions

There are 1 switch output and 1 switch input. The switch output is relay output, which can realize "remote control" and alarm output. The switch input can not only collect and display the local switch information, but also realize the remote transmission function through the RS485 of the instrument, that is, the "remote signal"

function.

5.7 Wireless communication function

ADW3 1 0 supports 470MHz LORA communication and 4G communication. The specific agreement on 4G communication can be obtained by contacting the relevant personnel of our company.

6 Communication description

6.1 Communication Protocol

This instrument adopts MODBUS-RTU protocol or DL/T645 protocol. For the specific protocol format, please refer to the relevant protocol standards, which will not be repeated here.

6.2 MODBUS communication

When using Modbus protocol for communication, the function code of the read data command is 03H, and the function code of the write data command is 10H.

The specific register address table is as follows:

initial address (hexadecimal)	data item name	length (bytes)	read/ write	Remark
1 000H	contact address	2	R/W	1~247
1 001H	baud rate	2	R/W	1: 1200bps 2: 2 400bps 3: 4800bps 4: 9600bps 5: 192 00bps
1002H	Check Digit 1	2	R/W	6:384 00bps low byte 0: no verification 1: odd parity 2: Even parity high byte 0:1 stop bit 1: 1.5 stop bit 2:2 stop bit
1003H-1005H		reserved		,
1006H	645 address	6	R/W	BCD code high order first
1009H	serial number	14	R/W	14 ASCII codes
1010H	wire system	2	R/W	0:3P4L 1:3P3L
1011H	Voltage secondary rating	2	R/W	One decimal place V
1012H	Current secondary rating	2	R/W	two decimal places A
1013H-101CH		reserved		
101DH	password	2	R/W	1-9999
101EH	Pulse constant	2	R/W	Default 1600

101FH	Voltage shield	2	R/W	0~655.35%				
1020H	Current shield 2		R/W	0~655.35%				
1021H-1025H	reserved							
1026H	demand cycle	2	R/W	Unit min (
102011	demand cycle		IN/VV	1-30)				
1027H-102DH	reserved							
102EH	Backlight time	2	R/W	0: always on 1: 1min				
102211	Baoking in time	_	1000	2:2min				
				Year,				
				Month Day,				
102FH	time	10	R/W	week, hour,				
				minutes, seconds,				
				millisecond				
1034H-1035H		reserved						
				Bit0: DO1 Bit1: DO2				
1036H	DO status	2	R/W	0: open				
				1: closed				
				Bit0:DI1 Bit1:DI2				
1037H	DI status	2	R	0: open				
				1: closed				
	First time zone timetable number							
	first time zone start month, first time							
	zone day							
	Second time zone timetable number							
	Second time zone start month, second							
	time zone day							
	Third time zone timetable number							
	3rd time zone start month, 3rd time							
	zone day Fourth time zone timetable number			Time slot number:				
	4th time zone start month, 4th time zone			period 1,				
	day			period 2,				
1038H	Fifth time zone timetable number	12	R/W	period 3,				
	Fifth time zone start month, fifth time			period 4,				
	zone day			Start month: 1-12				
	Sixth time zone timetable number			Start day: 1-31				
	6th time zone start month, 6th time zone							
	day							
	Seventh time zone timetable number							
	7th time zone start month, 7th time zone							
	day							
	Eighth time zone timetable number							
	Eighth time zone start month, eighth							
	time zone day							
	The first set of timetables,			Rate: 0				
1044H	Each period occupies three bytes,		R/W	1 point, 2 peaks				

	Rate, start time, start minute			3 flats, 4 valleys	
	respectively			Start: 0-23	
				Start Score: 1-59	
	The second set of timetables,				
1059H	Each period occupies three bytes,		R/W	Same as the first set of	
103311	Rate, start time, start minute		10,00	timetables	
	respectively				
	The third set of timetables,				
106EH	Each period occupies three bytes,	R/W		Same as the first set of	
IOOEH	Rate, start time, start minute			timetables	
	respectively				
	The fourth set of timetables,				
1083H	Each period occupies three bytes,		R/W	Same as the first set of	
10030	Rate, start time, start minute		PO/VV	timetables	
	respectively				
1098H	Voltage ratio	4	R/W	plastic	
109AH	Current transformation ratio	4	R/W	plastic	
109CH-109FH	reserved				

lasta a a a
Integer
Keep 1 decimal place, the
unit is V
If the value is U= 2200 , PT
= 1 ;
U=U* P T= 2200 * 0.1 * 1 =
220.0 V
Integer, unit A
2 decimal places
If the value is I= 200,
CT=10;
I=I*CT= 2 00*0.01*10 =
20A
Integer signed
Unit kW
3 decimal places
If the value is 11720, P
T=10, CT=10;
Then value = value * P
T*CT=
11720*0.001*10*10=1172 .
0kW

				Unit kVar
				3 decimal places
				Analyze the same active
				power
201EH-2023H		reserved		
				Integer
				Unit KVA
2024H	inspecting power	4	R	3 decimal places
				Analyze the same active
				power
2026H-202BH		reserved	1	
				Integer
				3 decimal places
202CH	power factor	4	R	If the value is 999,
				Then the
				value=999*0.001=0.999
202EH-2033H		reserved	1	
				Integer 2 decimal places
				If the value is 5000 ,
2034H	frequency	4	R	Then the value = 5000
				*0.01= 50.00H
2036H-		reserved		0.01 00.0011
200011		10001704		Integer signed
2058H	temperature 1	4	R	Unit 0.1°C
	temperature 2			Integer signed
205AH		4	R	Unit 0.1°C
				Offic 0.1 C
3000H	Secondary value of total active energy	4	R/W	Two decimal places, Kwh
300011	Secondary value of total active energy	4	IX/VV	Two decimal places, Rwii
3002H	Secondary value of forward active	4	R/W	Two decimal places, Kwh
	energy			
3004H	Secondary value of reverse active	4	R/W	Two decimal places, Kwh
	energy			
3006H	Secondary value of total reactive energy	4	R/W	Two decimal places, Kvarh
3008H	Secondary value of forward reactive	4	R/W	Two decimal places, Kvarh
	energy			•
300AH	Secondary value of reverse reactive	4	R/W	Two decimal places, Kvarh
	energy			, ,
300CH		reserved	1	I
				Integer, unit kWh
				2 decimal places
	Total active energy peak secondary			If the value is 120201, P
300EH	value	4	R/W	T=10 , CT=10;
				Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
3010H	Total active energy peak secondary	4	R/W	Integer, unit kWh

	value			2 decimal places
				If the value is 120201, P
				T=10 , CT=10;
				Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
				If the value is 120201, P
3012H	Total active energy level quadratic value	4	R/W	T=10 , CT=10;
				Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
			If the value is 120201, P	
3014H	Secondary value of total active energy	4	R/W	T=10 , CT=10;
301411	valley	7	10,00	Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
	Forward active energy peak secondary		If the value is 120201, P	
3016H	value	4	R/W	T=10 , CT=10;
				Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
	Forward active energy peak secondary			If the value is 120201, P
3018H	value	4	R/W	T=10 , CT=10;
	Value			Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
	Forward active one ray level avadentic			If the value is 120201, P
301AH	Forward active energy level quadratic	4	R/W	T=10 , CT=10;
	value			Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
		dary		Integer, unit kWh
				2 decimal places
	Forward active energy valley secondary			If the value is 120201, P
301CH	value	4	R/W	T=10 , CT=10;
				Then value = value * P
				T*CT=
				1 31

3028Н	Secondary value of forward reactive energy level	4	R/W	120201*0.01*10*10=12020 Integer, unit kWh 2 decimal places If the value is 120201, P T=10, CT=10;
3026H	Forward reactive energy peak secondary value	4	R/W	Integer, unit kWh 2 decimal places If the value is 120201, P T=10 , CT=10; Then value = value * P T*CT=
3024H	Forward reactive energy peak secondary value	4	R/W	Integer, unit kWh 2 decimal places If the value is 120201, P T=10, CT=10; Then value = value * P T*CT= 120201*0.01*10*10=12020
3022H	Reverse active energy valley secondary value	4	R/W	Integer, unit kWh 2 decimal places If the value is 120201, P T=10, CT=10; Then value = value * P T*CT= 120201*0.01*10*10=12020
3020Н	Reverse active energy peak secondary value	4	R/W	Integer, unit kWh 2 decimal places If the value is 120201, P T=10, CT=10; Then value = value * P T*CT= 120201*0.01*10*10=12020
301EH	Reverse active energy peak secondary value	4	R/W	120201*0.01*10*10=12020 Integer, unit kWh 2 decimal places If the value is 120201, P T=10, CT=10; Then value = value * P T*CT= 120201*0.01*10*10=12020

				Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
	Davana maatiya anamy maak			2 decimal places
	Reverse reactive energy peak		If the value is 120201, P	
302CH	secondary value	4	R/W	T=10 , CT=10;
	Reverse reactive energy peak			Then value = value * P
	secondary value			T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
	Daviene mantine enemy lavel			If the value is 120201, P
302EH	Reverse reactive energy level	4 R/W	R/W	T=10 , CT=10;
	secondary value		Then value = value * P	
				T*CT=
				120201*0.01*10*10=12020
				Integer, unit kWh
				2 decimal places
	Davis and a setting and a second all and			If the value is 120201, P
3030H	Reverse reactive energy valley	4	R/W	T=10 , CT=10;
	secondary value			Then value = value * P
				T*CT=
				120201*0.01*10*10=12020
3032H-		reserved		

4006H	Total active power real-time demand	4	R	Integer, unit kW
400011	Total active power real-time demand	4		3 decimal places
400CH	Total forward active power real-time	4	R	Integer, unit kW
400CH	demand	4	K	3 decimal places
400EH	Total reverse active power real-time	1	4 R	Integer, unit kW
400EH	demand	4		3 decimal places
4010H	Total forward reactive power real-time	4	R	Integer, unit kW
40100	demand	4	K	3 decimal places
4012H	Total reverse reactive power real-time	4	R	Integer, unit kW
4012H	demand	4	K	3 decimal places
4014H-	reserved			

01D0H-01EBH	Alarm 1 related data, see chapter 6.3.1 for details
0216H-0249H	Alarm 2, alarm 3 related data, see chapter 6.3.2 for details
0268H-0169H	Alarm 2, Alarm 3 alarm status, see chapter 6.3.2 for details

6.3 Alarm function related settings

6.3.1 Alarm 1 related parameter register address table

start address (hexadeci mal)	initial address (decimal)	data item name	length (bytes)	read/ write	Remark
01EBH	491	Alarm 1 state	2	R	bit0: Over voltage alarm bit1: under voltage alarm Bit2: Overcurrent alarm Bit3: undercurrent alarm Bit4: Over power alarm Bit5: Under power alarm Bit6: Whether DO1 alarm output bit7: Whether DO2 alarm output Bit8: Bit9: Bit10: Bit11: Bit12: Bit13: Bit14: Bit15: Power off report
01DOH	464	Alarm 1 enable bit	2	R/W	Bit0: Overvoltage alarm enable bit Bit1: Undervoltage alarm enable bit Bit2: Overcurrent alarm enable bit Bit3: Undercurrent alarm enable bit Bit4: Over power alarm enable bit Bit5: Under-power alarm enable bit Bit6: Whether DO1 alarm output bit7: Whether DO2 alarm output Bit8: Bit9: Bit10: Bit11: Bit12: Bit13: Bit14: Bit15: Power- off report enable bit

01D1H_	465	Over voltage alarm threshold	2	R/W	Integer
01D2H_	466	Over voltage alarm delay			Unit 0.1V Integer
UIDZH_	400	Over voltage alarm delay	2	R/W	Unit 0.01S
01D3H_	467	Undervoltage alarm threshold	2 500	Integer	
			2	R/W	Unit 0.1V
01D4H_	468	Undervoltage alarm delay	2	R/W	Integer
			2	IX/VV	Unit 0.01S
01D5H_	469	Overcurrent Alarm Threshold	2	R/W	Integer
				10,00	Unit 0.01A
01D6H_	470	Overcurrent Alarm Delay	2	R/W	Integer
				10,00	Unit 0.01S
01D7H_	471	Undercurrent alarm threshold	2	R/W	Integer
				10,00	Unit 0.01A
01D8H_	472	Undercurrent alarm delay	2	R/W	Integer
				1000	Unit 0.01S
01D9H_	473	Over power alarm threshold	2	R/W	Integer
				1000	Unit 0.001kw
01DA H	474	Over power alarm delay	2	R/W	Integer
				1000	Unit 0.01S
01DB H	475	Under power alarm threshold	2	R/W	Integer
			2	17/77	Unit 0.001kw
01DC H	476	Under power alarm delay	2	R/W	Integer
				1000	Unit 0.01S
	477		2	R/W	0: Normally open
01DD H		DI1 initial state		1,0,1,	1: Normally closed
					0: Do not associate with
01DE H	478	478 DI1 programming	2	R/W	DO
					1: Associate DO1
					2: Associate DO2
01E5H_	485	DO1 output mode	2	R/W	0: level
					1: Pulse
					0: Normal DO
			1: total failure		
			2	R/W	2: Total fault +DI1+DI2 3:
01E6H_	486	DO1 related content			DI1
					4:DI2
					5:DI1+DI2
					0: none
			2	2 R/W	1:1S
04551:	407	Bo4			2:2\$
01E7H_	487	487 DO1 output pulse width			3:3S
					4:4S

6.3.2 _ Alarm 2, Alarm 3 related parameter register address table

start address (hexadeci mal)	initial address (decimal)	data item name	length (bytes)	read/ write	Remark
0216H	534	Alarm 2 enable bit	2	R/W	Bit0: Low power factor alarm enable bit Bit1: Bit2: Bit3: Bit4: The first channel over temperature alarm enable bit Bit5: Bit6: bit7: The second channel over temperature alarm enable bit Bit8: Bit9: Bit10: Bit11: Bit12: Bit13: Bit14: Bit15:
0268H	616	Alarm 2 Alarm status	2	R	Corresponding to alarm 2 enable bit
0217H	535	Alarm 3 enable bit	2	R/W	Bit0: Current positive active power demand is too high alarm enable bit Bit1: Current reverse active power demand high alarm enable bit Bit2: Current high reactive power demand alarm enable bit Bit3: Current reverse reactive power demand high alarm enable bit Bit4: Current apparent demand high alarm enable bit

					Bit5 -Bit15: Reserved
0269H	617	Alarm 3 alarm status	2	R	Corresponding to alarm a
0218H	536	High power factor alarm threshold	2	R/W	Integer Unit 0.0 01
0219H	537	Power factor high alarm delay	2	R/W	Integer Unit 0.01S
0220H	544	The first circuit temperature is too high alarm threshold	2	R/W	Integer signed Unit 0.1℃
0221H	545	The first circuit over temperature alarm delay	2	R/W	Integer Unit 0.01S
0222H	550	The second circuit temperature is too high alarm threshold	2	R/W	Integer signed Unit 0.1℃
0223H	551	The second circuit over temperature alarm delay	2	R/W	Integer Unit 0.01S
0237H	567	Current unbalance too high alarm delay	2	R/W	Integer Unit 0.01S
0238H	568	The current forward active power demand is too high alarm threshold	4	R/W	Integer, unit kW 3 decimal places
023AH	570	Current reverse active power demand is too high alarm delay	2	R/W	Integer Unit 0.01S
023BH	571	The current forward active power demand is too high alarm threshold	4	R/W	Integer, unit kW 3 decimal places
023DH	573	Current reverse active power demand is too high alarm delay	2	R/W	Integer Unit 0.01S
023EH	574	The current forward reactive power demand is too high alarm threshold	4	R/W	Integer, unit Kvar 3 decimal places
0240H	576	The current forward reactive power demand is too high alarm delay	2	R/W	Integer Unit 0.01S
0241H	577	The current reverse reactive power demand is too high alarm threshold	4	R/W	Integer, unit Kvar 3 decimal places
0243H	579	The current reverse reactive power demand is too high alarm delay	2	R/W	Integer Unit 0.01S
0247H	583	Current apparent demand high alarm threshold	4	R/W	Integer, unit KVA 3 decimal places
0249H	585	Current apparent demand high alarm delay	2	R/W	Integer Unit 0.01S

7 Common Troubleshooting

7.1 The instrument RS485 networking communication failure.

Troubleshooting suggestion: Please confirm whether the RS485 wiring is loose, the AB connection is reversed, etc., and then press the button to check whether the general selection parameters in the table, such as address, baud rate, check digit, etc., are set correctly.

7.2 The wireless communication of the instrument is faulty.

Troubleshooting suggestion: Please use the USB to 485 serial cable to connect to the RS485 interface of the instrument first, read the parameters in the meter through communication, and confirm whether the parameters in the meter are the same as the wireless configuration of the upper master station (channel and spreading factor), if different, please modify The wireless parameters of the meter are consistent with the master station and then re-test; if they are the same, it may be that the meter and the master station are too far away or the on-site interference is serious. At this time, you can try to use an external suction cup antenna, or consider adding a nearby wireless master station. Test again.