PEOPLE
ELECTRIC

Instruction Manual

DTSU858/DSSU858 three-

phase electronic energy meter (guide rail)

Before installing and using the product, please read the instruction manual

carefully and keep it properly for future reference.

1. Overview

The DTSU/DSSU858 series three-phase rail-mounted multifunctional watt-hour meter adopts advanced ultra-low power solid-state integrated circuit technology and SMT advanced technology. It is used to measure the three-phase AC active and reactive power with a frequency of 50Hz/60Hz, and to measure the voltage, current, active power, reactive power, apparent power, power factor and frequency of the three phases A, B and C in the power grid in real time. The performance indicators of this meter comply with GB/T17215.321-2021 " Special Requirements for Electrical Measuring Equipment (AC) Part 21 : Static Active Energy Meters (Class A, Class B, Class C, Class D, Class E)", GB/T17215.323-2008 " Special Requirements for AC Measuring Equipment Part 23 : Class 2 and Class 3 Static Reactive Energy Meters" and DL/T 614-2007 "Multifunctional Energy Meter" standards. Its communication complies with the requirements of DL/T645-2007 "Multi-function Electric Energy Meter Communication Protocol", and is compatible with the requirements of DL/T645-1997 "Multi-function Meter Communication Protocol", and supports MODBUS-RTU protocol requirements. It can be customized to meet the various technical requirements of the multi-function electric energy meter according to functional requirements.

2. Functions and features 2.1 Metering function 2.1.1 Time-sharing metering of combined, positive and reverse active electric energy, and storage of the total and various rate electric energy of the current and previous settlement day to the previous 12 settlement days. 2.1.2 Time - sharing metering of combined reactive 1 and combined reactive 2 electric energy, and storage of the total and various rate electric energy of the current and previous settlement day to the previous 12 settlement days.

2.1.3 Metering of the total active maximum demand and occurrence time, and storage of the total maximum demand and occurrence time of the current and previous settlement day

to the previous 12 settlement days. **2.1.4 Measure the total maximum reactive**

demand and the time of

occurrence, and store the total maximum demand and the time of occurrence of the current and the last settlement day to the last 12 settlement days. **2.1.5 The**

maximum demand period is 5, 10, 15, 30, and 60 minutes. 2.2 Multi-rate function

2.2.1 4 programmable rates, 14 time periods, 8 daily time period tables, 14 annual time zones, 254 public holidays, and the time period can cross zero. 2.2.2 The meter has 2 sets of time zone tables and 2 sets of daily time period tables. 2.2.3 The energy meter uses a hardware clock

circuit and has an automatic temperature compensation function to ensure that the clock error is controlled within 0.5s/d under normal working conditions. The built-in clock has calendar,

2.3 RS485 interface to exchange data with the meter, support DL/T645-2007 protocol, compatible with DL/T645-1997 protocol, support MODBUS-RTU protocol, baud rate support: 1200bps , 2400bps (default), 4800bps, 9600bps, 19200bps, data format support: E81 (default), N81, O81. 2.4 This meter has wide load, high

accuracy, high reliability, high sensitivity, flat error curve, low power consumption, small size, light weight, energy saving and material saving, and uses LCD display for elegant and

intuitive display. 3.

Specifications and main parameters 3.1 Specifications and models

Model	Accurate Grade	Rated Voltage	Rated current	switch Optional Function	Constants
DTSU858	Active power B(1) class Active power A(2) class	3×57.7/100V 3×220/380V	1.5(6)A/0.05-0.25(6)A	External switch	3200imp/kWh
DSSU858		3×100V 3×380V	3(6)A/0.05-0.25(6)A 5(20)A/0.1-0.25(20)A	Switch built-in	400imp/kWh
			10(40)A/0.2-0.5(40)A 5(60)A/0.25-0.5(60)A 15(60)A/0.48-1(60)A		
			20(80)A/0.6-1.5(80)A		
			30(100)A/0.8-2(100)A external switch		

3.2 Basic error limit: Ib is the basic current and Imax is the maximum current.

Direct access	Power input through transformer	Basic error limit (%)	
Load current factor		0.5S level 1	
-	0.01Inÿl<0.05In 1 ±1.0 - 0.02Inÿl<0.05In 1 - ±1.5		
0.05IbÿI<0.1Ib			
0.1IbÿIÿImax	0.05InÿIÿImax 1 ±0.5 ±1.0		
-	0.02Inÿl<0.1In	0.5L ±1.0 - 0.8C ±1.0	
		- ±1.5	
0.1IbÿI<0.2Ib	0.05Inÿl<0.1In	0.5L ÿ	
		0.8C ÿ 0.5L	±1.5
0.2IbÿIÿImax	0.1InÿIÿImax	±0.6 0.8C ±0.6	±1.0
		3.3 Starting:	±1.0

Under the conditions of reference voltage, reference frequency and power factor of 1.0 , the current line current 0.5S level meter is 0.001In

When **the transformer connection of the level meter is 0.002In and the direct connection is 0.004Ib , the electric energy meter can start and record continuously within the specified time limit.**

3.4 Creeping: The meter has an anti-creeping logic circuit. No current is applied to the current circuit, and 115% of the reference voltage is applied to the voltage circuit.

The test output does not generate more than one pulse within the specified time limit.
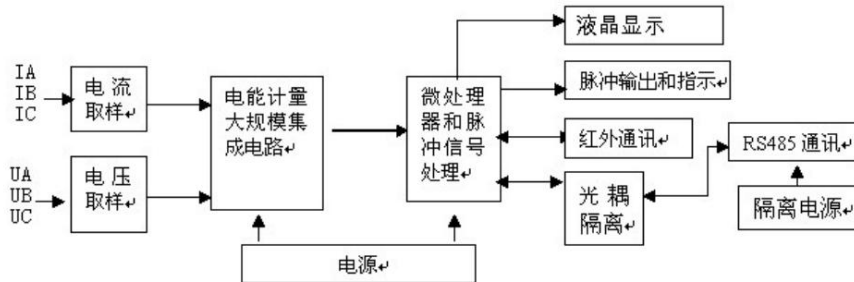
3.5 Power consumption: voltage circuit is less than 2W and 10VA, current circuit is less than 4.0VA

3.6 Environmental conditions

Working temperature: -25ÿÿ55ÿ Extreme working temperature: -25ÿÿ60ÿ

Note: Special requirements: Extreme working temperature: -40ÿÿ70ÿ

4. Working Principle

5. Display function
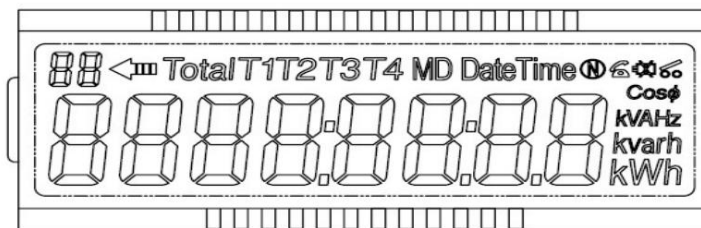
5.1 Use wide temperature and large LCD to display various information; the number of digits for electric energy display is 6 integers and 2 decimal places.

5.2 It has the function of automatic parameter rotation display, the rotation display time is 5 seconds, and the display items are shown in Appendix 1.

6. Installation and wiring

6.1 Appearance and installation dimensions

6.2 Wiring diagram:

三相四线直接接入式

三相四线经电流互感器接入式

三相四线经电流电压互感器接入式

三相三线直接接入式

三相三线电流互感式接入式接线图

三相三线电压、电流互感式接入式接线图

10	9	8	7	6	5	4	3	2	1
常开	公共	常闭	无功+	有功+	公共	RS485 A	B	时钟+	-
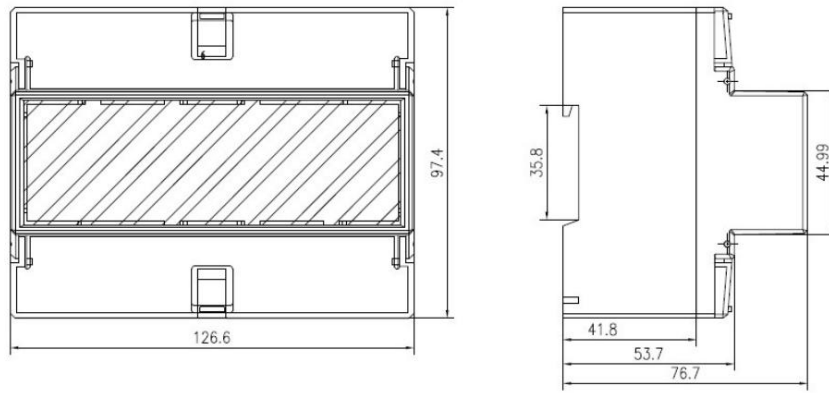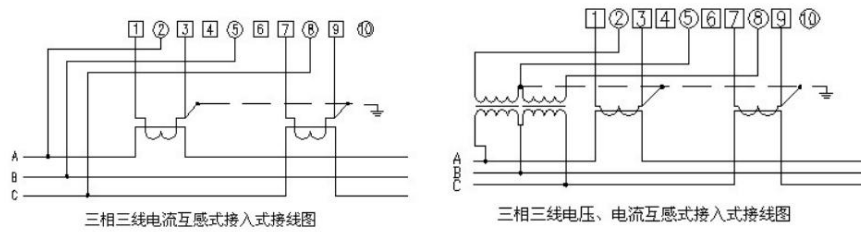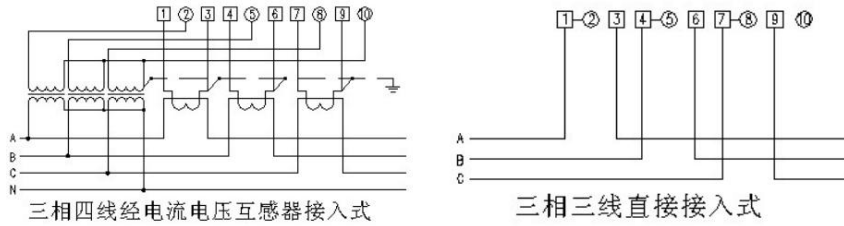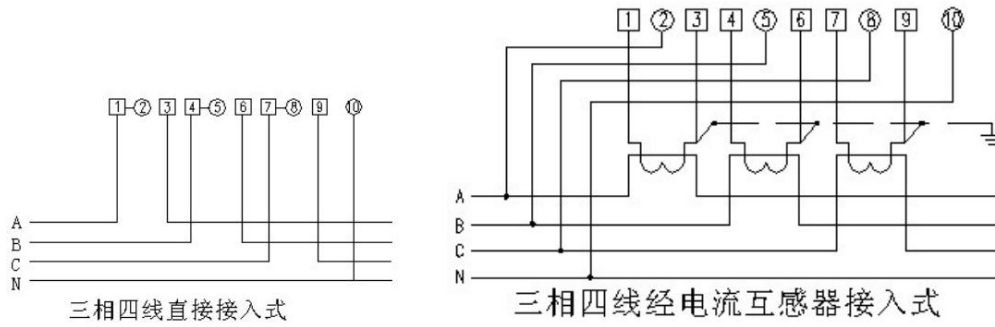
Function terminal wiring diagram

7. Transportation and storage

7.1 The transportation and storage of electric energy meters should not be subjected to severe impacts and should be carried out in accordance with GB/T15464-1995 "General Technical Specifications for Instrument Packaging".

Transport and storage in accordance with the provisions of the "Documents".

7.2 Store the energy meter in its original packaging. The ambient temperature should not exceed -25ÿÿ70ÿ and the relative humidity should not exceed 85%.

The air should not contain corrosive gases.

7.3. The electric energy meters should be placed on the racks in the warehouse, and the stacking height should not exceed 5 boxes. After unpacking, the stacking height of the single packaged electric energy meters should not exceed

No more than 10 .

8. Warranty period and after-sales service The electric energy meter is within 18 months from the date of manufacture.

If the meter is found not to meet the requirements of the relevant product standards after using the specifications, our company will repair or replace it free of charge.

Appendix 1: Display Code Table

show Code	Data item name	Data format reading and writing		data Logo	long Spend
01	Date	YYMMDDWW	* *	04000101	4
02	and	hhmmss	* *	04000102	3
03	time Communication address	NNNN	* *	04000401	6
04	(high 4 bits) Communication address (low 8 bits)	NNNNNNNN			
05	Communication address	NNN	* *		2
06	(Modbus) Meter	DDhh	* *	04000B01	2
07	constants for	XXXXX	*	04000409	3
08	the first settlement day of each	XXXXXX.XX	*	00000000	4
09	month (current) Total combined	XXXXXX.XX	*	00000100	4
10	active energy (current) Peak	XXXXXX.XX	*	00000200	4
11	combined active energy (current)	XXXXXX.XX	*	00000300	4
12	Peak combined active energy	XXXXXX.XX	*	00000400	4
13	(current) Level combined active	XXXXXX.XX	*	00010000	4
14	energy (current) Valley combined	XXXXXX.XX	*	00010100	4
15	active energy (current) Total forward	XXXXXX.XX	*	00010200	4
16	active energy (current) Peak forward	XXXXXX.XX	*	00010300	4
17	active energy (current) Peak forward	XXXXXX.XX	*	00010400	4
18	active energy (current) Level forward	XXXXXX.XX	*	00020000	4
19	active energy (current) Valley	XXXXXX.XX	*	00020100	4
20	forward active energy (current) Total	XXXXXX.XX	*	00020200	4
twenty one	reverse active energy (current) Peak	XXXXXX.XX	*	00020300	4
twenty two	reverse active energy (current) Peak	XXXXXX.XX	*	00020400	4
twenty three	reverse active energy (current)	XXXXXX.XX	*	00030000	4
twenty four	Reverse active energy (current)	XXXXXX.XX	*	00030100	4
25	Forward active level energy (current)	XXXXXX.XX	*	00030200	4
26	Reverse active valley energy	XXXXXX.XX	*	00030300	4
27	(current) Forward reactive total	XXXXXX.XX	*	00030400	4
28	energy (current) Forward reactive	XXXXXX.XX	*	00040000	4
29	peak energy (current) Forward	XXXXXX.XX	*	00040100	4
30	reactive peak energy (current)	XXXXXX.XX	*	00040200	4
31	Forward reactive level energy	XXXXXX.XX	*	00040300	4
32	(current) Forward reactive valley	XXXXXX.XX	*	00040400	4
33	energy (current) Reverse	XX.XXXX	*	01010000	3
34	reactive total energy (current)	MMDDhhmm	*	01010000	4
35	Reverse reactive peak energy (current) Reverse reactive level energy (current) Reverse reactive valley energy (current) Total active demand	XX.XXXX	*	01030000	3

36	(Current) total reactive power demand time	MMDDhhmm	*	01030000	4
37	Phase A voltage	XXX.X	*	02010100	2
38	Phase B voltage	XXX.X	*	02010200	2
39	Phase C voltage	XXX.X	*	02010300	2
40	Phase A current	XXX.XXX	*	02020100	3
41	Phase B current	XXX.XXX	*	02020200	3
42	Total active	XXX.XXX	*	02020300	3
43	power of phase C current	XX.XXXX	*	02030000	3
44	Phase A active power	XX.XXXX	*	02030100	3
45	Phase B active power	XX.XXXX	*	02030200	3
46	Phase C active power	XX.XXXX	*	02030300	3
47	Total reactive power	XX.XXXX	*	02040000	3
48	Phase A reactive power	XX.XXXX	*	02040100	3
49	B phase reactive power	XX.XXXX	*	02040200	3
50	C phase reactive	XX.XXXX	*	02040300	3
51	power total apparent power	XX.XXXX	*	02050000	3
52	Phase A apparent power	XX.XXXX	*	02050100	3
53	B phase apparent power	XX.XXXX	*	02050200	3
54	Phase C apparent	XX.XXXX	*	02050300	3
55	power total power factor	X.XXX	*	02060000	2
56	Phase A power factor	X.XXX	*	02060100	2
57	Phase B power factor	X.XXX	*	02060200	2
58	Phase C power	X.XXX	*	02060300	2
59	factor	XX.XX	*	02800002	2
60	Grid frequency 1st period	hhmm	**	04010001	3
61	start time and rate 2nd	hhmm	**	04010001	3
62	period start time and rate	hhmm	**	04010001	3
63	3rd period start time and	hhmm	**	04010001	3
64	rate 4th period start time	hhmm	**	04010001	3
65	and rate 5th period start	hhmm	**	04010001	3
66	time and rate 6th period start	hhmm	**	04010001	3
67	time and rate 7th period start	hhmm	**	04010001	3
68	time and rate 8th period start	hhmm	**	04010001	3
69	time and rate 9th period start	hhmm	**	04010001	3
70	time and rate 10th period start	hhmm	**	04010001	3
71	time and rate 11th period start	hhmm	**	04010001	3
72	time and rate 12th period start	hhmm	**	04010001	3
73	time and rate 13th period start time and rate 14th period start time and rate	hhmm	**	04010001	3
74	The starting date and daytime table number of the first time zone	MMDDNN	**	04010000	3
75	The starting date and daytime table number of the second time zone	MMDDNN	**	04010000	3
76	The starting date and daytime table number of the third time zone	MMDDNN	**	04010000	3
77	The starting date and daytime table number of the 4th time zone	MMDDNN	**	04010000	3
78	The starting date and daytime table number of the 5th time zone	MMDDNN	**	04010000	3
79	Starting date and daytime table number of the 6th time zone	MMDDNN	**	04010000	3
80	Starting date and daily time table number of the 7th time zone	MMDDNN	**	04010000	3

81	Starting date and daily time table number of the 8th time zone	MMDDNN	* *		04010000	3
82	Starting date and daily time table number of the 9th time zone	MMDDNN	* *		04010000	3
83	Starting date and daily time table number of the 10th time zone	MMDDNN	* *		04010000	3
84	Starting date and daily time table number of the 11th time zone	MMDDNN	* *		04010000	3
85	Starting date and daily time table number of the 12th time zone	MMDDNN	* *		04010000	3
86	Starting date and daily time table number of the 13th time zone	MMDDNN	* *		04010000	3
87	14th time zone start date and day time table number	MMDDNN	* *		04010000	3
88	(Last month) Combined active total	XXXXXX.XX	*		00000001	4
89	energy (Last month) Combined	XXXXXX.XX	*		00000101	4
90	active peak energy (Last month)	XXXXXX.XX	*		00000201	4
91	Combined active peak energy (Last	XXXXXX.XX	*		00000301	4
92	month) Combined active level	XXXXXX.XX	*		00000401	4
93	energy (Last month) Combined	XXXXXX.XX	*		00010001	4
94	active valley energy (Last month)	XXXXXX.XX	*		00010101	4
95	Forward active total energy (Last	XXXXXX.XX	*		00010201	4
96	month) Forward active peak energy	XXXXXX.XX	*		00010301	4
97	(Last month) Forward active level	XXXXXX.XX	*		00010401	4
98	energy (Last month) Forward active	XXXXXX.XX	*		00020001	4
99	valley energy (Last month) Reverse	XXXXXX.XX	*		00020101	4
A0	active total energy (Last month)	XXXXXX.XX	*		00020201	4
A1	Reverse active peak energy (Last	XXXXXX.XX	*		00020301	4
A2	month) Reverse active level energy	XXXXXX.XX	*		00020401	4
A3	(Last month) Reverse active valley	XXXXXX.XX	*		00030001	4
A4	energy (Last month) Forward	XXXXXX.XX	*		00030101	4
A5	reactive total energy (Last month)	XXXXXX.XX	*		00030201	4
A6	Forward reactive peak energy (Last	XXXXXX.XX	*		00030301	4
A7	month) Forward reactive level	XXXXXX.XX	*		00030401	4
A8	energy (Last month) Forward	XXXXXX.XX	*		00040001	4
A9	reactive valley energy (Last month)	XXXXXX.XX	*		00040101	4
B0	Reverse reactive total energy (Last	XXXXXX.XX	*		00040201	4
B1	month) Reverse reactive peak	XXXXXX.XX	*		00040301	4
B2	energy (last month) Reverse reactive	XXXXXX.XX	*		00040401	4
B3	peak energy (last month)	XX.XXXX	*		01010001	3
B4	Reverse reactive level energy (last	MMDDhhmm	*		01010001	4
B5	month) Reverse reactive	XX.XXXX	*		01030001	3
B6	valley energy (last month) Total	MMDDhhmm	*		01030001	4
B7	active demand (last month) Total	XXXXXX.XX	*		00000002	4
B8	active demand time (last month)	XXXXXX.XX	*		00000102	4
B9	Total reactive demand (last month)	XXXXXX.XX	*		00000202	4
C0	Total reactive demand time (last	XXXXXX.XX	*		00000302	4
C1	February) Combined active total	XXXXXX.XX	*		00000402	4
C2	energy (last February) Combined	XXXXXX.XX	*		00010002	4
C3	active peak energy (last February)	XXXXXX.XX	*		00010102	4
C4	Combined active peak energy (last	XXXXXX.XX	*		00010202	4
C5	February) Combined active level energy (last February) Combined active valley energy (last February) Total positive active energy	XXXXXX.XX	*		00010302	4

C6	(Last 2 months) Forward active	XXXXXX.XX	*		00010402	4
C7	valley energy (Last 2 months)	XXXXXX.XX	*		00020002	4
C8	Reverse active total energy (Last 2	XXXXXX.XX	*		00020102	4
C9	months) Reverse active peak energy	XXXXXX.XX	*		00020202	4
D0	(Last 2 months) Reverse active level	XXXXXX.XX	*		00020302	4
D1	energy (Last 2 months) Reverse	XXXXXX.XX	*		00020402	4
D2	active valley energy (Last 2 months)	XXXXXX.XX	*		00030002	4
D3	Forward reactive total energy (Last	XXXXXX.XX	*		00030102	4
D4	2 months) Forward reactive peak	XXXXXX.XX	*		00030202	4
D5	energy (Last 2 months) Forward	XXXXXX.XX	*		00030302	4
D6	reactive level energy (Last 2 months)	XXXXXX.XX	*		00030402	4
D7	Forward reactive valley energy (Last	XXXXXX.XX	*		00040002	4
D8	2 months) Reverse reactive total	XXXXXX.XX	*		00040102	4
D9	energy (Last 2 months) Reverse	XXXXXX.XX	*		00040202	4
E0	reactive peak energy (Last 2 months)	XXXXXX.XX	*		00040302	4
E1	Reverse reactive level energy (Last	XXXXXX.XX	*		00040402	4
E2	2 months) Reverse reactive	XX.XXXX	*		01010002	3
E3	valley energy (Last 2 months) Total	MMDDhhmm	*		01010002	4
E4	active demand (Last 2 months)	XX.XXXX	*		01030002	3
E5	Total active demand time (Last 2	MMDDhhmm	*		01030002	4

months) Total reactive demand (Last 2 months) Total reactive demand time Appendix 2: Modbus communication function

1. Function introduction: The RS485 communication interface of the energy meter complies with the Modbus protocol. The default data format is: E, 8, 1, and the default baud rate is

The rate is 2400bps. The total length of the communication cable cannot exceed 1200 meters. If the shielded twisted pair is long, it is recommended to connect a

150-300 ohm resistor to improve communication reliability. Broadcast commands can be used to set the communication address.

2. Function code

Function code meaning	Functional Description
0x03 Read multiple registers to obtain the	internal register values of the slave station
0x10 Set multiple registers to write the	specified values into the registers in the slave station

3. MODBUS register list

Address	variable name	read Write	Data format symbols	data type
0000H 0001H	(Current) Combination Total active energy	R	XXXXXX.XX	unsigned Dword
0012H	years Day and time Minutes, seconds	R/W	yy,mm,dd,hh ,mm,ss 00 10 02 10 00 03 06 YY MM DD hh mm ss crc0 crc1	Unsigned BCD
0015H Communication address		R/W	001-247	Unsigned Char
0016H Communication control word		R/W	5-19200 4-9600 3-4800 2-2400 1-1200	Unsigned Char

Address	Description	R/W	Format	Type	Word
0017H	Communication data format	R/W	0-N, 8, 1 1-O, 8, 1 2-E, 8, 1	Unsigned Char	
0020h	Settlement Time (DDhh)	R/W	DDhh	Unsigned	Word (BCD)
0080H	A phase voltage	R	XXX.XV Unsigned Word		
0081H	B phase voltage	R	XXX.XV Unsigned Word		
0082H	Phase C voltage	R	XXX.XV Unsigned Word		
0083H	A phase current	R	XXX.XX A Unsigned Word		
0084H	B phase current	R	XXX.XX A Unsigned Word		
0085H	C phase current	R	XXX.XX A Unsigned Word		
0086H 0087H	Total active power	R	XX.XXX kW signed Dword		
0088H	Phase A active power	R	XX.XXX kW Signed Word		
0089H	Phase B active power	R	XX.XXX kW Signed Word		
008AH	C phase active power	R	XX.XXX kW Signed Word		
008BH 008CH	Total reactive power	R	XX.XXX kvar signed Dword		
008DH	A phase reactive power	R	XX.XXX kvar Signed Word		
008EH	B phase reactive power	R	XX.XXX kvar Signed Word		
008FH	C phase reactive power	R	XX.XXX kvar Signed Word		
0090H 0091H	Total apparent power	R	XX.XXX kvar unsigned Dword		
0092H	A phase apparent power	R	XX.XXX kVA Unsigned Word XX.XXX		
0093H	B phase apparent power	R	kVA Unsigned Word XX.XXX kVA		
0094H	Phase C apparent power	R	Unsigned Word Unsigned Word X.XXX		
0095H	Total power factor	R		Unsigned Word	
0096H	A phase power factor	R	X.XXX	Unsigned Word Unsigned Word	
0097H	B phase power factor	R	X.XXX	Unsigned Word	
0098H	Phase C power factor	R	X.XXX		
0099H	frequency	R	XX.XX		
009AH 009BH	Current positive total active energy	R	XXXXXX.XX unsigned Dword		
009CH 009DH	Current reverse active total energy	R	XXXXXX.XX unsigned Dword		
009EH 009FH	Current forward reactive	R	XXXXXX.XX unsigned Dword		
00A0H 00A1H	total energy Current reverse reactive total energy	R	XXXXXX.XX unsigned Dword		
0100H 0101H	Current combined active	R	XXXXXX.XX unsigned Dword		
0102H 0103H	total energy Current combined	R	XXXXXX.XX unsigned Dword		
0104H 0105H	active peak energy Current combined active peak energy	R	XXXXXX.XX unsigned Dword		

Address	Description	R/W	Format	Type
0106H 0107H	Current combined active	R	XXXXXX.XX	unsigned Dword
0108H 0109H	level energyCurrent	R	XXXXXX.XX	unsigned Dword
010AH 010BH	combined active valley	R	XXXXXX.XX	unsigned Dword
010CH 010DH	energyCurrent forward active	R	XXXXXX.XX	unsigned Dword
010EH 010FH	total energyCurrent	R	XXXXXX.XX	unsigned Dword
0110H 0111H	forward active peak energyCurrent	R	XXXXXX.XX	unsigned Dword
0112H 0113H	forward active peak energyCurrent	R	XXXXXX.XX	unsigned Dword
0114H 0115H	forward active level energyCurrent	R	XXXXXX.XX	unsigned Dword
0116H 0117H	forward active valley	R	XXXXXX.XX	unsigned Dword
0118H 0119H	energyCurrent reverse active total	R	XXXXXX.XX	unsigned Dword
011AH 011BH	energyCurrent reverse active	R	XXXXXX.XX	unsigned Dword
011CH 011DH	peak energyCurrent	R	XXXXXX.XX	unsigned Dword
011EH 011FH	reverse active level energyCurrent	R	XXXXXX.XX	unsigned Dword
0120H 0121H	reverse active valley energyCurrent	R	XXXXXX.XX	unsigned Dword
0122H 0123H	forward reactive total	R	XXXXXX.XX	unsigned Dword
0124H 0125H	energyCurrent forward reactive	R	XXXXXX.XX	unsigned Dword
0126H 0127H	peak energyCurrent	R	XXXXXX.XX	unsigned Dword
0128H 0129H	forward reactive peak	R	XXXXXX.XX	unsigned Dword
012AH 012BH	energyCurrent forward reactive	R	XXXXXX.XX	unsigned Dword
012CH 012DH	level energyCurrent	R	XXXXXX.XX	unsigned Dword
012EH 012FH	forward reactive valley	R	XXXXXX.XX	unsigned Dword
0130H 0131H	energyCurrent reverse reactive total energyCurrent reverse reactive peak energyCurrent reverse reactive peak energyCurrent reverse reactive level ene	R	XXXXXX.XX	unsigned Dword
0132H 0133H 0134H 0135H	Current total active demand and occurrence time	R	XX.XXXX YYMMDDhhmm	Unsigned

0136H 0137H 0138H 0139H	Current total reactive power demand and occurrence time	R	XX.XXXX YYMMDDhhmm	Unsigned	
0200H 0201H	Combined active energy of last month	R	XXXXXX.XX unsigned Dword		
0202H 0203H	Combined active energy of last month	R	XXXXXX.XX unsigned Dword		
0204H 0205H	Combined active peak energy of last month	R	XXXXXX.XX unsigned Dword		
0206H 0207H	Combined active energy of last month	R	XXXXXX.XX unsigned Dword		
0208H 0209H	Combined active energy of last month	R	XXXXXX.XX unsigned Dword		
020AH 020BH	Combined active energy of last month	R	XXXXXX.XX unsigned Dword		
020CH 020DH	Valley energy of last month Forward active	R	XXXXXX.XX unsigned Dword		
020EH 020FH	energy of last month Forward active energy	R	XXXXXX.XX unsigned Dword		
0210H 0211H	of last month Forward active peak energy of	R	XXXXXX.XX unsigned Dword		
0212H 0213H	last month Forward active energy of last	R	XXXXXX.XX unsigned Dword		
0214H 0215H	month Forward active energy of last month	R	XXXXXX.XX unsigned Dword		
0216H 0217H	Forward active energy of last month Forward	R	XXXXXX.XX unsigned Dword		
0218H 0219H	active energy of last month Valley energy	R	XXXXXX.XX unsigned Dword		
021AH 021BH	of last month Reverse active energy of last	R	XXXXXX.XX unsigned Dword		
021CH 021DH	month Reverse active energy of last month	R	XXXXXX.XX unsigned Dword		
021EH 021FH	Reverse active energy of last month Reverse	R	XXXXXX.XX unsigned Dword		
0220H 0221H	active energy of last month Valley energy	R	XXXXXX.XX unsigned Dword		
0222H 0223H	of last month Reverse reactive energy of last	R	XXXXXX.XX unsigned Dword		
0224H 0225H	month Forward reactive energy of last month	R	XXXXXX.XX unsigned Dword		
0226H 0227H	Forward reactive peak energy of last month	R	XXXXXX.XX unsigned Dword		
0228H 0229H	Forward reactive energy of last month Forward reactive energy of last month Forward reactive energy of last month Valley energy of last month Reverse reactive energy of last month	R	XXXXXX.XX unsigned Dword		

022AH 022BH	Reverse reactive peak energy last	R	XXXXXX.XX unsigned Dword		
022CH 022DH	month Reverse reactive peak	R	XXXXXX.XX unsigned Dword		
022EH 022FH	energy last month Reverse reactive	R	XXXXXX.XX unsigned Dword		
0230H 0231H	level energy last month Reverse reactive valley energy last month	R	XXXXXX.XX unsigned Dword		
0232H 0233H 0234H 0235H	Total active power demand and occurrence time of the previous month	R	XX.XXXX YYMMDDhhmm	Unsigned	
0236H 0237H 0238H 0239H	Total reactive power demand and occurrence time in the previous month	R	XX.XXXX YYMMDDhhmm	Unsigned	
…	…	…	…	…	…
0D00H 0D01H	Combined active total energy in	R	XXXXXX.XX unsigned Dword		
0D02H 0D03H	December Combined active peak	R	XXXXXX.XX unsigned Dword		
0D04H 0D05H	energy in December Combined active	R	XXXXXX.XX unsigned Dword		
0D06H 0D07H	peak energy in December	R	XXXXXX.XX unsigned Dword		
0D08H 0D09H	Combined active level energy in	R	XXXXXX.XX unsigned Dword		
0D0AH 0D0B	December Combined active valley	R	XXXXXX.XX unsigned Dword		
0D0CH 0D0D	energy in December Forward active	R	XXXXXX.XX unsigned Dword		
0D0E 0D0FH	total energy in December Forward	R	XXXXXX.XX unsigned Dword		
0D10H 0D11H	active peak energy in December	R	XXXXXX.XX unsigned Dword		
0D12H 0D13H	Forward active level energy in December	R	XXXXXX.XX unsigned Dword		
0D14H 0D15H	Forward active valley energy in	R	XXXXXX.XX unsigned Dword		
0D16H 0D17H	December Forward active total energy	R	XXXXXX.XX unsigned Dword		
0D18H 0D19H	in December Reverse active	R	XXXXXX.XX unsigned Dword		
0D1A 0D1B	peak energy in December Reverse	R	XXXXXX.XX unsigned Dword		
0D1CH 0D1D	active peak energy in December	R	XXXXXX.XX unsigned Dword		
0D1E 0D1FH	Reverse active level energy in December Reverse active valley energy in December Forward reactive total energy in December	R	XXXXXX.XX unsigned Dword		

0D20H 0D21H	Last December positive Reactive power	R	XXXXXX.XX unsigned Dword		
0D22H 0D23H	peak in December Reactive peak	R	XXXXXX.XX unsigned Dword		
0D24H 0D25H	power on December positive Reactive power level	R	XXXXXX.XX unsigned Dword		
0D26H 0D27H	up to December positive Reactive valley	R	XXXXXX.XX unsigned Dword		
0D28H 0D29H	power on December reverse Total reactive	R	XXXXXX.XX unsigned Dword		
0D2A 0D2B	energy reverse on December Reactive peak	R	XXXXXX.XX unsigned Dword		
0D2 0D2	energy on December reverse Reactive peak	R	XXXXXX.XX unsigned Dword		
0D2E 0D2F	power on December reverse Reactive power	R	XXXXXX.XX unsigned Dword		
0D30H 0D31H	level on December reverse Reactive valley energy	R	XXXXXX.XX unsigned Dword		
0D32H 0D33H 0D34H 0D35H	Last December Total demand and output Birth time	R	XX.XXXX YYMMDDhhmm	Unsigned	
0D36H 0D37H 0D38H 0D39H	Last December, no activity Total demand and output Birth time	R	XX.XXXX YYMMDDhhmm	Unsigned	

Note: When the highest bit of a signed parameter is 1, it is a negative number and the complement code should be used.

Appendix 3: Button Operation

Key Description:

Bs key: Return to the previous menu level and save settings.

Up key: turn pages in the same level menu; increase numbers.

Dn key: turn pages in the same level menu; decrease numbers.

St key: enter the next level menu; control cursor movement.

Display characters:

character	illustrate
Psd	Password(1111)
Add	Instrument address (1-247)
bud	Baud rate 1200/2400/4800/9600/19200 bps
dA	Data Format
n.8.1	Data bit 8, stop bit 1, no parity
E.8.1	Data bit 8, stop bit 1, even parity

o.8.1	Data bit 8, stop bit 1, odd parity

Key operation:

Press the St key for three seconds to display "PSd 0000", and then press the Bs key after being prompted to enter the password. If the password is entered incorrectly, the system will return to the initial state.

If the password is entered correctly, you can set the parameters.

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Note: For the contents of this manual, if due to technical upgrades or the adoption of newer

production processes, Renmin Electric has the right to change or alter them at any time without further explanation.

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