Quick operation manual

Quick operation manual of DIN meter installation

Thank you for your choose product of Zhejiang CHINT instrument co., LTD., in order to facilitate your safe and correct use of the instrument, please read this manual carefully and be sure to pay attention to when using the following:

- The instrument must be conducted by professional installation and maintenance;
- Before the operation of the instrument wiring must be cut off the input signal;
- Always use the appropriate voltage detection device is used to determine each part instrument no voltage;

The following conditions will lead to abnormal device damage or device work:

- Instrument variable than setting is not correct;
- Voltage, current, frequency, beyond;
- Current or voltage polarity is not correct;
- Connection terminals not according to requirements;

1. Technical parameters

Table 1

Technical parameters			Index			
	Voltage	Connection mode	One-phase			
		Rated value (Un)	One-phase		AC230V	
		Working voltage	0.9Un—1.1Un			
		Limiting operating	0.8 Un—1.15Un			
		voltage	0.0 CH 1.15 CH		1.15 CH	
		Consumption	≤10VA/ 2W			
T .		Resistance	$>$ 500k Ω			
Input	Current	Rated value	Direct access		AC 5(60)A	
signal		Kateu value	Mutual inductance a	ccess	AC */100mA	
		Current overload	Direct access to the instrument: instant: 30Imax,			
		Current overroad	Rated frequency half cycle time;			
		Consumption of	≤2VA		OVA	
		the current circuit		22 VA		
		Resistance	$<$ 20m Ω			
	Frequency	Input range	45Hz ~ 65Hz			
	Display		Block code LCD display			
Output		Active energy	Class 1S resolving po		olving power 0.01kWh	
Juipui		Pulse constant	Direct access to the instrument		Active 800 imp/kWh,	

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		Pulse signal output	Supply active energy optical signal and optocoupler collector open-circuit electrical signal impulse output, pulse length:80±16ms _o		
	Auxiliary function	Protocol	Supported MODBUS RTU communication proto communication baud rate 2400 BPS, 4800 BPS, 9600 BPS be set, the default 9600 BPS .		

Note 1: mark does project is optional, as shown in the table 4.

Note 2: the other performance index, indoor table reference IEC 62053 - 21 requirements.

Note 3: instrument applies only to its corresponding technical performance and technical parameters.

2. Wiring instructions: :

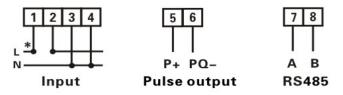


Figure 1 Direct access to the instrument

Voltage signal wire

3------Un(Voltage input zero) 4------Un(Voltage input zero)

Current signal wire

1 -----I*(Current input) 2 -----I (Current output)

RS485 communication line

7------ A (RS485 A end) 8------ B (RS485 B end)

Energy pulse output line

5--- output high end of active energy pulse 6----- output low end of active energy pulse

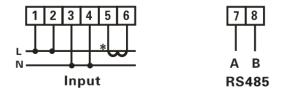


Figure 2 Mutual inductance access to the instrument

Voltage signal wire

1 ------ UL (Current input) 2 ------ UL (Current outpu) 3------ UN(Voltage input zero) 4------ UN(Voltage input zero)

Current signal wire

5 -----I*(Current input) 6 -----I (Current output)

RS485 communication line

7------ A (RS485 A end) 8------ B (RS485 B end)

— Installation size

Table 2

Model	Shell size (width N×length M×depth D)	Guide rail mounting dimensions		
DDSU666	36mmx89mmx74mm	35mm		

—, Communication protocol

Communication protocol accord with DLT (645-645 multi-function watt-hour meter communication

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protocol, support the communication address, id code, speaking, reading and writing (current) positive active power, voltage data blocks, instantaneous active power current data block, block, power grid frequency, power factor data block. Support AAAAAAAAAAAAA radio and read data and table number.

DL/T 645-2007 protocol switching to the ModBus RTU communication protocol data frame is as follows:

FE FE FE 68 xx xx xx xx xx xx xx 68 14 0E 33 33 35 3D 35 33 33 33 33 33 33 33 33 33 33 36 CS 16 Note: xx xx xx xx xx xx xx for the table address; CS to check code.

Communication parameters description: this instrument provides A standard RS485 communication interface and ModBus RTU communication protocol (see appendix A), communication can read or modify the parameters of the information, as shown in table 3.

Table 3 Communication parameter information

Parameter address	Parameter code	Instruction of the parameters	Type of data	Length of data Word	Read&write attributes
0000Н	UCode	Programming password codE	16-bit with symbols	1	R/W
0001H	REV.	Reserved, actual read is the version number	16-bit with symbols	1	R
0002H	ClrE	Electric energy zero clearing CLr.E(1:zero clearing)	16-bit with symbols	1	R/W
0003Н	RESERVED	RESERVED	16-bit with symbols	1	
0004H	RESERVED	RESERVED	16-bit with symbols	1	
0005H	ChangeProtocol Protocol changing-over		16-bit with symbols	1	R/W
0006Н	Addr Communication address Addr 16-bit with symbols		1	R/W	
0007H	RESERVED	RESERVED	16-bit with symbols	1	
0008H	RESERVED	RESERVED	16-bit with symbols	1	
0009Н	RESERVED	RESERVED	16-bit with symbols	1	
000AH	RESERVED	RESERVED	16-bit with symbols	1	
000BH	Meter type	Meter type	16-bit with symbols	1	R
000CH	BAud	Communication baud rate bAud	16-bit with symbols	1	R/W
000DH	RESERVED	RESERVED	16-bit with symbols	1	
000EH	RESERVED	RESERVED	16-bit with symbols	1	
000FH	RESERVED	RESERVED	16-bit with symbols	1	
0010H	RESERVED	RESERVED	16-bit with	1	

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			symbols			
Electric quantity of the secondary side						
2000H	U	Voltage	single precision floating decimal	2	R	
2002H	I	Current	single precision floating decimal	2	R	
2004H	P		single precision floating decimal	2	R	
2006Н	Q	Conjunction reactive power , single precision the unit is Kvar floating decimal		2	R	
2008H	RESERVED	RESERVED single precisi floating decir		2	R	
200AH	PF	Conjunction power factor	single precision floating decimal	2	R	
200CH	RESERVED	RESERVED	single precision floating decimal	2	R	
200EH	Hrea Hreallency		single precision floating decimal	2	R	
2010H	RESERVED	RESERVED	single precision floating decimal	2	R	
Electrical data of the secondary side						
4000H	Ер	Ep Active in electricity single precision floating decima		2	R	
400AH	IIAH I - FN REVERSE IN ELECTRICITY		single precision floating decimal	2	R	

ChangeProtocol such as protocol switching, data for 2 for Modbus RTU protocol -, data to 1 for DL/T 645-2007;

The CLr. E power reset write 1 removal of total power;

BAud rate:

1:2400bps; 2:4800bps; 3:9600bps;

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