



DTSU666 series three phase four wire electronic energy meter (Din-rail) DSSU666 series three phase three wire electronic energy meter (Din-rail)

User Manual

Smart Meter for Zero Export to Grid





Catalog

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1. Brief Introduction

1.1. Main application & applicable range

DTSU666 series three phase four wire and DSSU666 series three phase three wire electronic energy meter (din-rail) (hereinafter referred to as the "instrument") is designed based on power monitoring and energy metering demands for electric power system, communication industry, construction industry, etc. as a new generation of intelligent instrument combining measurement and communication function, mainly applied into the measurement and display for the electric parameters in the electric circuit including three voltage, three current, active power, reactive power, frequency, positive& negative energy, four-quadrant energy, etc. Adopting the standard DIN35mm din rail mounting and modular design, it is characterized with small volume, easy installation and easy networking, widely applied into the internal energy monitoring and assessment for industrial and mining enterprises, hotels, schools, large public buildings.

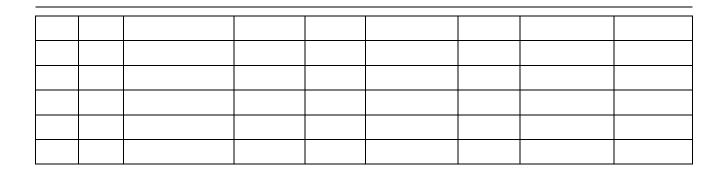
Complied standards:

IEC 61010-1:2010 《Safety requirements for electrical equipment for measurement, control and laboratory use Part1:General requirements》

IEC 61326-1:2013 《Electrical equipment for measurement, control and laboratory use –EMC requirements Part1:General requirements》

1.2. Product Features

1) Characterized with positive and reverse active power, combined active power, combined reactive power, four quadrant reactive power metering and storage function with combination mode character can be set.



- 2) RS485 communication interface, easy to exchange data with outside;
- 3) Adopting the standard DIN35mm din rail mounting and modular design, it is characterized with

small volume, easy installation and easy networking.

1.3. Product Model

Model	voltage	Current	Impulse constant		
WIGGET	(\mathbf{V})	(A)	imp/kWh	imp/kvarh	Accuracy class
		1.5(6)	6400	6400	Active Class 0.5S,
DTSU666	3×230/400	1.5(6)A	.5(6)A 6400		Reactive Class 2
D150000	3×230/400 -	5(80)A	400	400	Active Class 1, Reactive
					Class 2
		1 5(6) 1			Active Class 0.5S,
DESUGG		1.5(6)A			Reactive Class 2
DSSU666	3×400	5(90) A			Active Class 1, Reactive
	5(80)A	J(00)A		400 40	400

Table 1 product model and specification

Note: 1.5(6)A is Connection through current transformers, 5(80)A is direct access.

1.4. Temperature range

Regulated working temperature range: $-10^{\circ}C \sim +45^{\circ}C$;

Limited working temperature range: -25 $^\circ\!\mathrm{C}$ +75 $^\circ\!\mathrm{C}$;

Relative humidity(Annually average):≤75%;

Atmospheric pressure: 63.0kPa \sim 106.0kPa(altitude 4km and below), excepting the requirements for special orders.

- 2. Working Principle
- 2.1. Working Principle

The instrument are composed of high accurately integrated circuit specially for measurement

(ASIC) and managing MCU, memory chip, RS485 communication module, etc.

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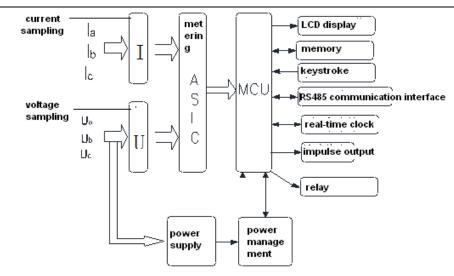


Figure 1 Working principle block diagramFigure 1

2.2. Principle for the main function module

The special metering integrated circuit (ASIC) integrated six load two order $\sum -\Delta$ type of A/D conversion, please take the digital signal processing measured by the voltage circuit as well as all the power, energy, effective values, power factor and frequency. This metering chip can measure the active power, reactive power, apparent power, active energy, reactive power, apparent energy of each phase and combined phase, and at the same time measuring current, voltage effective values, power factor, phase angle, frequency and other parameters, entirely satisfying the needs of power meter. The chip provides an SPI interface, convenient for metering parameters as well as parameter calibration between the management MCU.

- 3. Main Technical Performance & Parameters
- 3.1. limit of error caused by the current augment

Meters for	Value of current	Power factor	Percentage error limits for meters of class		
	value of current		0.5S	Class 1	Class 2
	$0.01I_n \le I \le 0.05I_n$	1	±1.0	±1.5	±2.0
Connection through	0.05I _n ≤I≤I _{max}	1	±0.5	±1.0	±1.2
current transformers	$0.02I_n \le I \le 0.1I_n$	0.5L、0.8C	±1.0	±1.5	±2.0
	0.1I _n ≤I≤I _{max}	0.5L、0.8C	±1.0	±1.0	±1.2

Table 2 The limit value of the active percentage error of meters on balanced load

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	$0.05I_{b} \le I < 0.1I_{b}$	1	-	±1.5	±2.0	
Direct connection	$0.1I_b \le I \le I_{max}$	1	-	±1.0	±1.2	
Direct connection	$0.01I_b \le I \le 0.2I_b$	0.5L、0.8C	-	±1.5	±2.0	
	0.2Ib≤I≤Imax	0.5L、0.8C	-	±1.0	±1.2	
Note	In: secondary rated current of the current transformer; Ib: calibrated current of the meter;					
	L:inductive; C: capacitive;					

Table 3 The limit value of the reactive percentage error of meters on balanced load

Value of	current	sinφ (inductive or	Percentage error limits for meters of class
Direct connection	Connection through current transformers	capacitive)	Class 2
$0.05I_{\rm b} \le I < 0.1I_{\rm b}$	$0.02I_{\rm n} \le I < 0.05I_{\rm n}$	1	±2.5
$0.1I_{\rm b} \le I \le I_{\rm max}$	$0.05I_{\rm n} \leq I \leq I_{\rm max}$	1	±2.0
$0.1I_{\rm b} \le I < 0.2I_{\rm b}$	$0.05I_{\rm n} \le I < 0.1I_{\rm n}$	0.5	±2.5
$0.2I_{\rm b} \le I \le I_{\rm max}$	$0.1I_n \leq I \leq I_{\max}$	0.5	±2.0
$0.2I_{\rm b} \le I \le I_{\rm max}$	$0.1I_n \leq I \leq I_{max}$	0.25	±2.5

Table 4 The limit value of the reactive percentage error of meters on balanced load

Value of current		Power	Percentage error limits for meters of class		
Direct	Connection		0.55	Class 1	Class 2
connection	through				
$0.1 I_{\rm b} \le I \le I_{\rm max}$	$0.05I_{\rm n} \leq I \leq I_{\rm max}$	1	±0.6	±2.0	±3.0
$0.2I_{\rm b} \le I \le I_{\rm max}$	$0.1I_n \leq I \leq I_{\max}$	0.5L	±1.0	±2.0	±3.0

Table 5 The limit value of the reactive percentage error of meters on imbalanced load

Value	of current		Percentage error limits for meters of class		
Direct Direct connection connection		Power factor	Class 2		
$0.1 I_{\rm b} \le I \le I_{\rm max}$	$0.05I_n \leq I \leq I_{max}$	1	±3.0		
$0.2I_{\rm b} \leq I \leq I_{\rm max}$	$0.1I_n \leq I \leq I_{\max}$	0.5	±3.0		

3.2. Starting and no-load condition

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Under the power factor of 1.0 and started current, the instrument can be started and continuously measure (for multiple phase instrument, it will bring balanced load). If the instrument is designed based on measurement for dual directional energy, then it is applicable for each direction of energy.

Table 6 star	t current
--------------	-----------

Motors for	(Power factor		
Meters for	0.5S	1	2	Power factor
Direct connection	-	$0.004I_{b}$	$0.005I_{b}$	1
Connection through	$0.001I_{b}$	$0.002I_{b}$	$0.003I_{b}$	1
current transformers	0.0011_b	$0.002I_b$	$0.003I_b$	1

3.2.2. Test of no-load condition

When the voltage is applied with no current flowing in the current circuit, the test output of the meter shall not produce more than one pulse.

For this test, the current circuit shall be open-circuit and a voltage of 115 % of the reference

voltage shall be applied to the voltage circuits.

The minimum test period Δt shall be

$$\Delta t \ge \frac{600 \times 10^6}{k \cdot m \cdot U_n \cdot I_{\max}} [\min] \text{ for meters of class } 0.5S \text{ or } 1$$

$$\Delta t \ge \frac{480 \times 10^6}{k \cdot m \cdot U_n \cdot I_{\max}} [\min] \text{ for meters of class } 2$$

k is the number of pulses emitted by the output device of the meter per kilovarhour(imp/kvar \cdot h); m is the number of measuring elements;

Un is the reference voltage in volts;

Imax is the maximum current in amperes.

3.3. Electrical parameters

Regulated operating voltage range	0.9Un~1.1Un		
Extended operating voltage range	0.8Un~1.15Un		
Power consumption of voltage	≤1.5W 和 6VA		
Demon computing of current	Ib<10A	≤0.2VA	
Power consumption of current	Ib≥10A	≤0.4VA	
Data storage time after power interruption ≥ 10 years		ears	

Table 7 Electrical parameters

4. Main function

4.1. Displayed function

From the displayed interface, the electrical parameter and energy data are all primary side data (that is, the multiplied by current and voltage ratios). The energy measuring value will be displayed seven bits, with the displaying range from 0.00kWh to 9999999MWh.



Figure 2 display

Table 8 Display interface

No.	Display interface	Instruction	No.	Display interface	Instruction
1	$\begin{tabular}{ c c c c c c } & & & & \\ \hline & & & & & \\ \hline & & & & & \\ \hline & & & &$	Combined active energy =10000.00kWh	11	16 5.00 1 *	Phase B current =5.001A
2	Inp. W h	Positive active energy =10000.00kWh	12		Phase C current =5.002A
3	Exp.	Reserve active energy =2345.67kWh	13	P<u>L</u> <u>3</u>29 <u>I</u>^kw	Combined phase active power =3.291kW
4		Protocol: DT/L645-2007	14	PA 1090*	Phase A active power =1.090kW
5		address = 000000000001	15	₽Ь !![]!₩	Phase B active power =1.101kW

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6		Protocol: MdoBus-RTU;	16		Phase C active power =1.100kW
7		address =001 Baudrate=9600 None parity, 2 stop bits	17	FE 0.500	Combined phase power factor PFt=0.500
8	v 0.055 R U	Phase A voltage =220.0V	18	FR LOOO	phase A power factor PFt=1.000
9	<u> 18 550 1</u>	Phase B voltage =220.1V	19	Fb 0.500	Phase B power factor PFt=1.000
10	11 2202 [,]	Phase C voltage =220.20V	20	FE-0.500	phase A power factor PFt=-0.500

NOTE: Combined active energy = Positive active energy - Reserve active energy \circ

4.2. Programming function

4.2.1. Programming function

Table 9	Programming	Parameter
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Parameter	Value range	Description		
		Current ratio, used for setting the input loop current ratio:		
۲ŀ	1~9999	When the current is connected to the line via the transformer, Ct=the rated		
LC	1, - 99999	current of the primary loop / the rated current of the secondary circuit;		
		When the current is directly connected to the line, Ct shall be set as 1.		
		Voltage ratio, used for setting the voltage ratio of the input loop;		
PE	0.1 ~ .000.0	When the voltage is connected to the line via the transformer, Pt= the rated		
	0.1~999.9	voltage of the primary loop / the rated voltage of the secondary circuit;		
		When the voltage is directly connected to the line, Pt shall be set as 1.0.		
Prot	1: 645;	Settings for communication stop bit and Parity bits:		

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	2: n.2;	1: Factory mode;
	3: n.1;	2: None parity, 2 stop bits, n.2;
	4: E.1;	3: None parity, 1 stop bit, n.1;
	5: O.1;	4: Even parity, 1 stop bit, E.1;
		5: Odd parity, 1 stop bit, O.1;
	0: 1.200;	Communication baud rate:
		0: 1.200 bps;
bRud	1: 2.400;	1: 2.400 bps;
	2: 4.800;	2: 4.800 bps;
	3: 9.600;	3: 9.600 bps;
Rddr	1~247	Communication address
	0	Option for wiring mode:
nEE	0: n.34; 1: n.33;	0: n.34 represents three phase four wire;
		1: n.33 represents three phase three wire.
	0.000 1.15	The setting is 1, representing the allowed instrument energy data clearance,
Elr.E	0:no; 1:E	which will be zero reset after clearing.
	0:P; 1:Q;	Pulse output:
PLuS	2:S;	0: active energy pulse; 1: reactive energy pulse; 2: Others.
	0 - 20	Display in turns(second)
d ISP	0~30	0: Timely display; $1 \sim 30$: Time interval of actual display.
	0 - 20	Backlight lighting time control (minutes)
PTEQ	0~30	0: Normally light; $1 \sim 30$: backlight lighting time without button operation

4.2.2. Programming operation

Button description: "SET" button represents "confirmation", or "cursor shift" (when input digits),

"ESC" button represents "exit", " \rightarrow " (" ") button represents "add". The input code is (default 701).

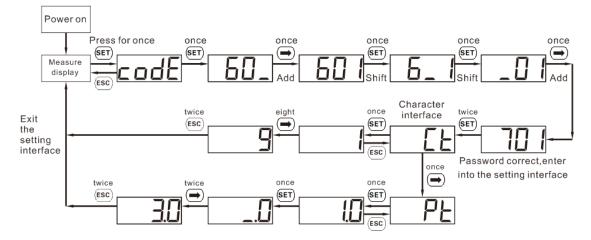


Figure 3 Setting examples for current and potential transformer ratio

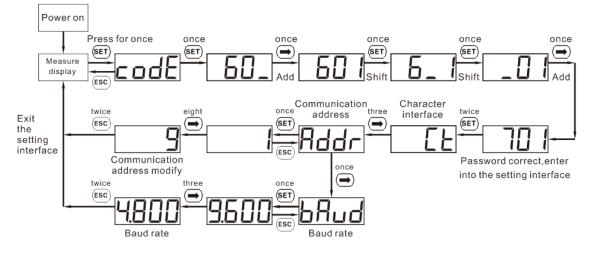


Figure 4 Setting examples for communication address and Baud Rate

4.3. Communication function

Characterized with a RS485 communication interface, the baud rate can be changed between 1200bps, 2400bps, 4800bps and 9600bps. It conforms to DL/T645-2007<the communication protocol of the multifunction energy meters> or ModBus-RTU protocol requirements.

Factory default communication parameters is DL/T 645-2007 protocol, the default baud rate is 2400bps, with the calibration bit and stop bit to be E.1 and instrument address (please see instrument factory number or crystal display screen).

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Customized communication parameter is ModBus-RTU protocol, the baud rate is 9600bps, with the calibration bit and stop bit to be n.1, and the instrument address to be 1. The following table is the common ModBus protocol address table, can be asked for specified communication protocol by calling. ModBus_RTU protocol read command is 03H, write command is 10H.

Parameter address	Parameter code	Instructions of parameters	Data type	Data length Word	Read Write
Keyboard	l parameters	(specific parameters see the instructions of program		rs, the actu	ual value
		with (*) parameter = communication parameter val			
0000H	REV.	Version No.	16 bit with Signed char	1	R/W
0001H	UCode	Programming code codE(1~9999)	16 bit with	1	R/W
0002H	ClrE	Power reset CLr.E(1:energy clear)	Signed char	1	R/W
0003H	net	Network selection (0:three phase four wire,1:three phase three wire)	16 bit with	1	R/W
0006H	I - AE	Current transformer rate IrAt($1 \sim 9999$)	Signed char	1	R/W
0007H	Ur A E	Voltage transformer rate UrAt (*) (1 \sim 9999 represents voltage ratio 0.1 \sim 999.9)	16 bit with	1	R/W
000AH	Disp	Rotating display time (s)	Signed char	1	R/W
000BH	B.LCD	Backlight time control (s)	16 bit with	1	R/W
000CH	Endian	Single-precision floating point size end mode (0:ABCD;1:CDAB;2:BADC;3:DCBA;)	Signed char	1	R/W
002CH	Protocol	Protocol switching (1:DL/T645-2007;2:n.2;5:n.1;6:E.1;7:o.1)	16 bit with	1	R/W
002DH	2DH BRud Communication baud rate bAud (0:1200;1:2400;2:4800;3:9600;4:19200)		Signed char	1	R/W
002EH	Rddr	Communication address Addr(1~247)	16 bit with	1	R/W
		Electricity data on the secondary side			
2000H	Uab		float	2	R
2002H	Ubc	Three phase line voltage data, Unit V(×0.1V)	float	2	R
2004H	004H Uca		float	2	R
2006H	Ua	Three phase phase voltage data, Unit V V($\times 0.1$ V)	float	2	R
2008H	2008H Ub (Invalid for three phase three phase)		float	2	R

Table 10 ModBus protocol address table

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200AH	Uc		float	2	R	
200AH 200CH	Ia		float	2	R	
200EH	Ib	Three phase current data, Unit A(×0.001A)	float	2	R	
200EH 2010H	IC	Three phase current data, Ohnt A(×0.001A)	float	2	R	
2010H	Pt	Combined active power, Unit W(×0.1W)	float	2	R	
2012II 2014H	Pa	A phase active power, Unit W(×0.1W)	float	2	R	
201411	Fa	B phase active power, Unit W(×0.1W)	float	2	K	
2016H	Pb		Hoat	2	R	
2018H	Pc	(Invalid for three phase three phase)	floot	2	R	
		C phase active power, Unit W(×0.1W)	float			
201AH	Qt	Combined reactive power, Unit var(×0.1var)	float	2	R	
201CH	Qa	A phase reactive power, Unit var(×0.1var)	float	2	R	
201EH	Qb	B phase reactive power, Unit var(×0.1var)	float	2	R	
202011	0	(Invalid for three phase three phase)	CI /	2		
2020H	Qc	C phase reactive power, Unit var(×0.1var)	float	2	R	
202AH	PFt	Combined power factor(positive number:	float	2	R	
		inductive, negative number: capacitive) (×0.001)	CT .			
202 GH	PFa	A phase power factor(positive number: inductive,	float		Ð	
202CH		negative number: capacitive)		2	R	
		(Invalid for three phase three phase) (×0.001)				
	PFb	B phase power factor(positive number: inductive,	float			
202EH		negative number: capacitive)		2	R	
		(Invalid for three phase three phase) (×0.001)				
		C phase power factor(positive number: inductive,	float			
2030H	PFc	negative number: capacitive)		2	R	
		(Invalid for three phase three phase) (×0.001)				
2044H	Freq	Frequency, Unit Hz(×0.01Hz)	float	2	R	
		Power secondary side data				
101EH	ImpEp	(current) positive total active energy	float	2	R	
1028H	ExpEp	(current) negative total active energy	float	2	R	
1032H	Q1Eq	(current) Total reactive energy of the first	float	2	D	
1032П	QIEq	quadrant		2	R	
102011	025~	(current) Total reactive energy of the second	float	2	D	
103CH	Q2Eq	quadrant		2	R	
104611	025-	(current) Total reactive energy of the third	float		л	
1046H	Q3Eq	Q3Eq quadrant	quadrant		2	R

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1050H	O4Eq	(current) Total reactive energy of the fourth	float	2	R
		quadarant			

Note 1: When the ratio of the voltage transformer is 1, the data of read voltage transformer ratio register

UrAt is 10. When the ratio of voltage transformer is 1, ignore the above table(UrAt \times 0.1).

Note : Single-precision floating point adopts standard IEEE754 format, total 32 bit(4 word). The single-precision floating point mode is assumed to be 0, ABCD(high type in the front, low byte behind).

4.4. Energy measurement function

The horizontal axis of the measurement plane represents the current vector I (fixed on the horizontal axis), and the instantaneous voltage vector is used to represent the current power transmission. Compared with the current vector I, it has phase angle ϕ . The counter-clockwise direction ϕ angle is positive.

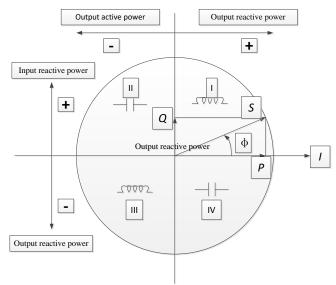


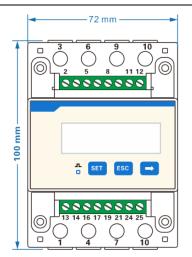
Figure 11 Measurement schematic diagram for energy four quadrants

5. Outline and installation size

able	12	Installation size	

Model	modulus	Outline size (length× width× height) mm	Installation size (din rail)
DTSU666	4	100×70×65	DIN25 din mil
DSSU666	4	100×72×65	DIN35 din rail

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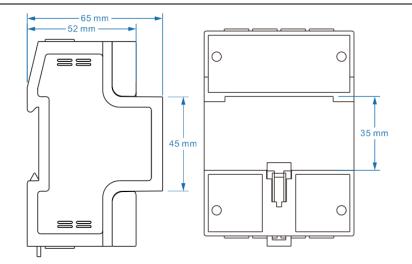


Figure 5 Outline size diagram

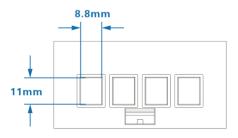


Figure 6 current cable terminal (Conductor Cross-sectional Area Range ≤16 mm²)

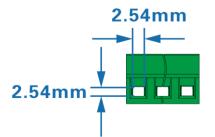


Figure 7 RS485 cable terminal (Conductor Cross-sectional Area Range 0.25-1mm2)

- 6. Installation and operation manual
- 6.1. Inspection Tips

When unpacking the carton, if the shell has obvious signs caused by severe impact or falling, please contact with the supplier as soon as possible.

After the instrument being removed from the packing box, it should be placed on a flat and safe plane, facing up, not overlaying for more than five layers. If not installed or used in a short time, the electric meter shall be packed and placed to the original packing box for storage.

6.2. Installation and tips

6.2.1. Installation and Inspection

If the model No or configuration in the original packing box is not in accordance with the requirement, please contact with the supplier. While, if the inner package or shell has been damaged after removing the instrument from the packing box, please do not install, power on the instrument, please contact with the supplier as soon as possible, instead.

6.2.2. Installation

It requires experienced electrician or professional personnel to install it and you must read this operation manual. During the installation, if the shell has obvious damage or marks caused by violent impact or falling, please do not install it or power on and contact with the supplier as soon as possible.

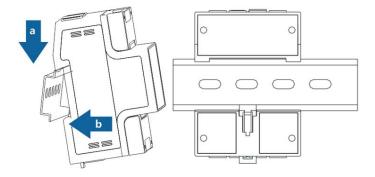


Figure 8

6.3. Typical wiring

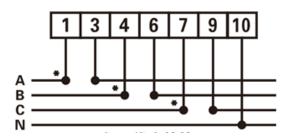


Figure 9 Three phase four wire: direct connect

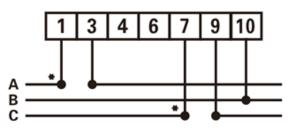


Figure 10 Three phase three wire: direct connect

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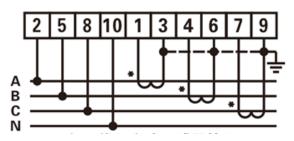


Figure 11 Three phase four wire: Connection throughcurrent transformers

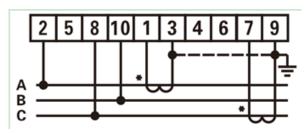


Figure 12 Three phase three wire: Connection through current transformers



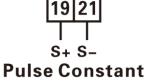
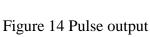


Figure 13 RS485



5 ------UB (Phase B voltage input terminal)

10-----UN (Phase N voltage input terminal)

3-----IA (Phase A current output terminal)

6-----IB (Phase B current output terminal)

9-----IC(Phase C current output terminal)

- Voltage signal (only for connection via current transformer)
- 2------UA (Phase A voltage input terminal)

8-----UC (Phase C voltage input terminal)

• Current signal:

1-----IA*(Phase A current input terminal)

4-----IB*(Phase B current input terminal)

7-----IC*(Phase C current input terminal)

◆ RS485 Communication wire

24-----A (RS485 Terminal A)

25-----B (RS485 Terminal B)

• Auxiliary function

- 19----- Active energy and reactive energy output high terminal
- 21----- Active energy and reactive energy output low terminal

• Auxiliary function

19----- Active energy and reactive energy output high terminal

21----- Active energy and reactive energy output low terminal

7. Diagnosis, analysis and elimination for common faults

Fault phenomenon	Reason analysis	Elimination
No display when powered on	 1 Incorrect wiring 2 Abnormal voltage for the instrument 	 If it is wrongly connected, please reconnect based on the right wiring mode (see the wiring diagram). If the supplied voltage is abnormal, please choose the specified voltage. If not the above problems, please contact with the local supplier.
Abnormal RS485 communication	 RS485 communication cable is opened, short circuit or reversely connected. Address, baud rate, data bit and check bit is not in accordance with the host computer. The end of RS485 communication cable has not been matched with resistance (when the distance over than 100 meters) Not matched with the communication protocol order of the host computer 	 If there is any problem with the communication cable, please change it. Set the address, baud rate, data bit and check bit through buttons and confirm it is the same with the host computer, then set the operation to be "parameter settings". If the communication distance is over than 100 meters, and the communication parameter settings are the same as the host computer, but cannot be communicated, then please lower the baud rate or add a resistance of 120Ω at the start terminal and ending

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		terminal.
Abnormal data for the electrical parameter (voltage, current, power, etc.)	 The transformer's ratio hasn't been set, and the instrument displays the secondary side data. Wrong wiring. 	 If setting the transformer ratio, please set the voltage ratio and current ratio based on "parameter setting" If wrongly connected, please connect the voltage and current of phase A, B and C to the wiring terminal of the instrument.
Abnormal data for the electrical parameter read by communication (voltage, current, power, etc.)	 Data read by communication is secondary side data, without transformer ratio. Wrong analysis for data frame 	 Multiply the data read by communication with the voltage ratio and current ratio. Analyze the data frame based on the format of the communication protocol, please pay attention to the mode of the big and small end of data.

8. Transportation & Storage

When transporting and unpacking the products, please confirm they are not severely impacted, transporting and storing based on Transportation, basic environmental conditions and testing methods for instrument and meters of JB/T9329-1999.

The instrument and accessories shall be stored in the dry and ventilated places, to avoid humidity and corrosive gas erosion, with the limited environmental temperature for storage to be $-40^{\circ}C \sim +70^{\circ}C$ and relative humidity not exceeding 85%.

9. Maintenance & Service

We guarantee free reparation and change for the multi-meter if found any unconformity with the standard, under circumstance of that the users fully comply with this instructions and complete seal after delivery within 18 months.

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Dear clients,

Please assist us: when the product life is end, to protect our environment, please recycle the product or

components, while for the materials that cannot be recycled, please also deal with it in a proper way. Really appreciate

your cooperation and support.

Name of Company: Zhejiang Chint Instrument & Meter Co., Ltd.

Address: Wenzhou Bridge Industrial Zone, Yueqing, Zhejiang, China.

Q.S.S. (COMUNICATION OF COMPANY) COMUNICATION OF COMPANY COMUNICATION

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