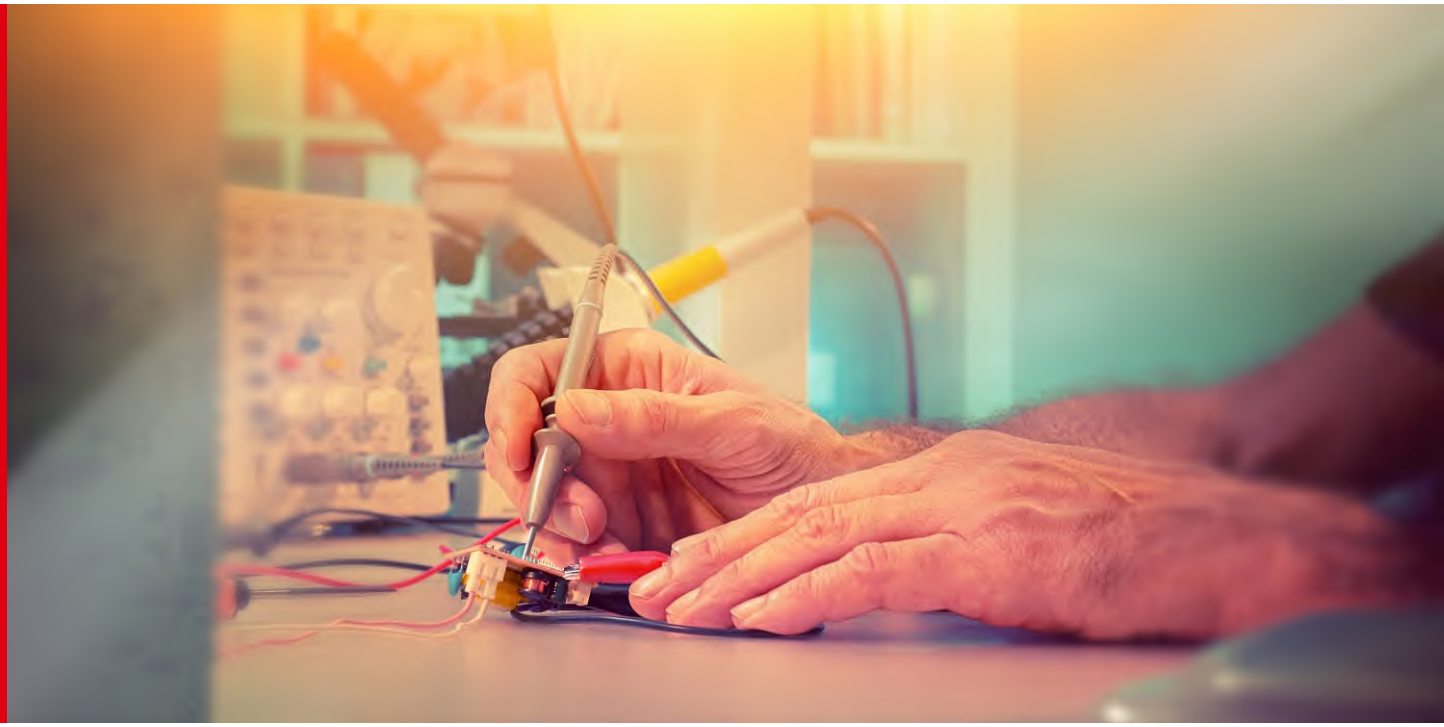
YIFA®伊发
股票代码(Stock Code):870154

科技造就未来 / 品质源于专业
Technology to create the future,from professional quality



Rail type electric energy meter, electronic electric energy meter, digital display electric energy meter, water and electricity card series……

Professional Supplier of Intelligent Instrumentation

YIFA HOLDING GROUP CO., LTD.

YIFA Large Modernized Production Base Building area: 180000 ㎡

YIFA Holding Group Co., Ltd. is a national high-tech enterprise group specialized in industrial electrical technology and also engaged in finance, e-commerce and trade and investment. It is a China Top 500 company, a China Top 500 company in the machinery industry, a national spark program enterprise, a famous brand in Jiangxi Province and a famous trade mark in Jiangxi Province. It is the designated supplier for centralized procurement by State Grid, China Southern Power Grid and national hydrological system. Its subsidiary Jiangxi YIFA Power Technology Co., Ltd. was listed in 2016 with the stock code 870154. The Group mainly develops, produces and sells such low-carbon, energy-conserving and eco-friendly products as photovoltaic substations, wind power substations, eco-friendly gas insulation ring main units, complete sets of electrical equipment, HV and extra high voltage substation equipment, glass reinforced plastic electric meter boxes, stainless steel and transparent boxes, HV and LV elements, wires and cables, explosion-proof electric apparatuses, building appliances, instruments, etc. The maximum capacity of transformers reaches 63000KVA and the voltage class reaches 220KV.

The Group owns three specialized industrial bases: Shanghai, Wenzhou and Jiangxi, five wholly-owned subsidiaries: Jiangxi YIFA Power Technology Co., Ltd., Shanghai YIFA Electric Co., Ltd., Zhejiang YIFA Import & Export Co., Ltd., Jiangxi YIFA Wires and Cables Co., Ltd., Yueqing YIFA Import & Export Co., Ltd., over three hundred agents and direct sales companies and over five hundred dealers all over China and its production and sales scale is at a leading position in multiple industries.

The Group has been appointed as the vice-chairman unit by Zhejiang Province Circuit-breaker Association, vice-chairman unit by Wenzhou Salesman Association and vice-chairman unit by Yueqing Transmission and Distribution Association. It has been awarded AAA Credit Rating Unit by China Construction Bank, Jiangxi Province AAA Quality Credit Unit, National AAAA Creditable Unit, Jiangxi Province Famous-brand Products, Jiangxi Province Famous Trade Mark, Jiangxi Province Technology Center, Zhejiang Province Technology-based Enterprise, Wenzhou Technology Innovation Enterprise, Municipal High-integrity Privately-owned Enterprise, Municipal Famous Trade Mark and Advanced Enterprise with harmonious employment relationship. It is also a partner of Shenyang High Voltage Apparatus Research Institute.

The Group applies advanced techniques and relies on reliable quality. By following the mission of “safety first and orientation to services” and undertaking the corporate responsibility of “building excellent products”, it gradually establishes the quality management system meeting international advanced standards. It pioneers the certification by ISO Quality Management System and keeps it running well and effectively. All products are certified with “CCC” and authoritative test reports by competent agencies. The Group has spent a large amount of funds on the establishment of the technology development center where the most excellent domestic and foreign technical elites are centralized, endeavor great efforts to introduce domestic and foreign advanced techniques and equipment and establish the good partnership with multiple domestic and foreign scientific research organizations and colleges and universities to ensure that products meet the leading standards in the world. Additionally, the Group has obtained more than one hundred utility models for photovoltaic substations, wind power substations, eco-friendly gas insulation ring main unit, prepaid circuit breakers, intelligent re-closure circuit breakers, amorphous alloy transformers, box-type transformers, transparent anti-power theft electric meter boxes and transparent type circuit breakers and so on to fill the gap in China.

On the present day when optimized energy deployment and optimal energy utilization are proactively advocated, the Group follows the main policy of technology, environmental protection, energy conservation and low carbon and strives to develop sustainable power energies and Jiangxi Industrial Base follows the main research and development direction of photovoltaic and wind power.

The Group focuses on brand strategy, insists on marketing innovation and is listed among leading electrical industry players due to its rapid, healthy and continuous development trend. In the intense market competition, YIFA successively won the bids with State Grid Nationwide Power Corporation, successively won such international famous projects as Beijing Asian Games Village, Olympic Games supporting projects, etc., won extensive reputation and influences on the international stage and led “Made in China” towards “Created in China”. YIFA products are widely applied in State Grid, China Southern Power Grid, high-speed railway, urbanization construction, oilfields, thermal power generation, airports, iron and steel companies and gas supply and heat supply and are sold to multiple countries and regions such as Japan, America, Russia, Southeast Asia, Middle East and Africa. By following the philosophy of customer orientation, the Group won good market reputation both internationally and domestically.

Technology creates quality and practical and hard work makes the dream come true. Looking forward to the future, YIFA will insist on the development strategy of specialization, be realistic and pragmatic, implement exploration and innovation and follow the goal of “building the globally leading substation enterprise and making the global brand for YIFA that lasts one hundred years”. We hope that domestic and foreign peers and massive customers cooperate with and support us as always to contribute more to the “Chinese Dream”.

PRODUCT CONTENTS

Single and three-phase 485 collector models

Remote prepaid electricity meter (mobile phone recharge)

Single-phase rail type 485

Three-phase rail type 485

Single Phase Wall Mount 485

Three Phase Wall Mount 485

Product description

The RS485 communication scheme is a line data transmission method, which is applied to the occasions where the 485 communication line is convenient to be arranged. The RS485 remote prepaid electricity meter uses the affordable RS485 electricity meter + collector network to realize the functions of remote meter reading, remote control, and remote recharge. Compared with the traditional IC card payment mode, RS485 remote prepaid is a further upgrade, which saves time, effort, and high efficiency.

Our company's RS485 remote prepaid electricity meter, combined with our self-developed computer + mobile phone dual-platform background management system, is easy to use, convenient and fast, and is widely used in communities, schools, factories, shopping malls and other places. At present, it has been gradually adopted by real estate engineering projects, residential properties, campus dormitories, etc., and is very popular in the market.

Rs485 prepaid electricity meter + collector

Low-cost time-limited remote meter reading/remote control/remote payment.The electricity meters are installed centrally and uniformly, and each collector can connect 20 electricity meters (regardless of single-phase and three-phase).

Communication principle

Communication + acquisition layer

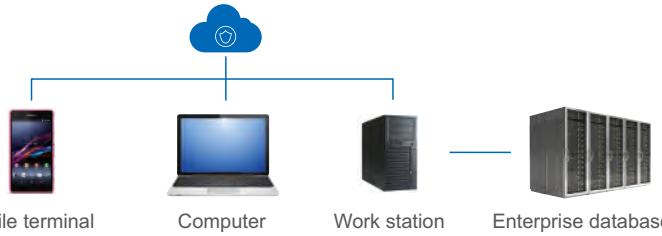
Rs485 remote prepaid electricity meter

4G collector

Cloud Server

Note:Single-rate electricity price, multi-rate electricity price, and stepped multi-rate electricity price are available. It can be used as DDZY5333 single-phase intelligent cost control electric energy meter and DTZY5333 three-phase four-wire intelligent cost control electric energy meter. Can be customized according to customer requirements.

Master layer



Mobile terminal

Computer

Work station

Enterprise database

Single and three-phase 485 collector models

Remote prepaid electricity meter (mobile phone recharge)

Single-phase
rail type Wifi

Three-phase
rail type Wifi

Single Phase
Wall Mount Wifi

Three Phase
Wall Mount Wifi

Product description

Wifi wireless smart meter is a new type of prepaid meter that applies Wi-Fi technology to prepaid meter. It connects quickly to the network via Wifi. As long as one or more Wifi remote prepaid electricity meters are installed within the range covered by the Wifi signal, they can be connected and formed into a prepaid electricity meter system to realize functions such as remote meter reading, remote control, and remote recharge. Compared with the traditional IC card payment mode, Wif remote prepaid can be used directly after connecting to Wif without additional wiring, saving time, effort, and high efficiency. Reduce later operation and maintenance costs.

Our company's Wif remote prepaid electricity meter, combined with our self-developed computer + mobile phone dual-platform background management system, is easy to use, convenient and fast, and is widely used in communities, schools, factories, shopping malls and other places. At present, it has been gradually adopted by real estate engineering projects, residential properties, campus dormitories, etc., and is very popular in the market.

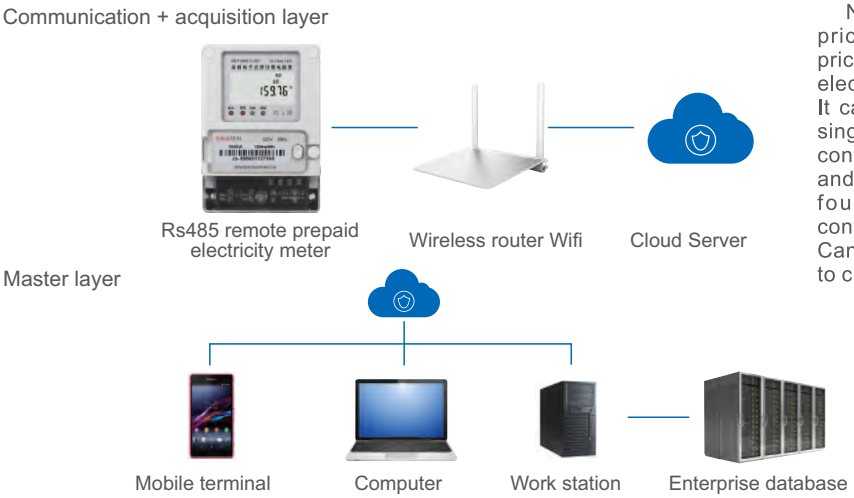
Wifi Remote Prepaid Meter

Just plug in the power, connect to Wifi, and you can use it directly.

Realize remote meter reading/remote control/ remote payment.

The electricity meter can be installed separately, as long as it is within the range of the Wifi signal (either the same Wifi or different Wifi).

Communication principle

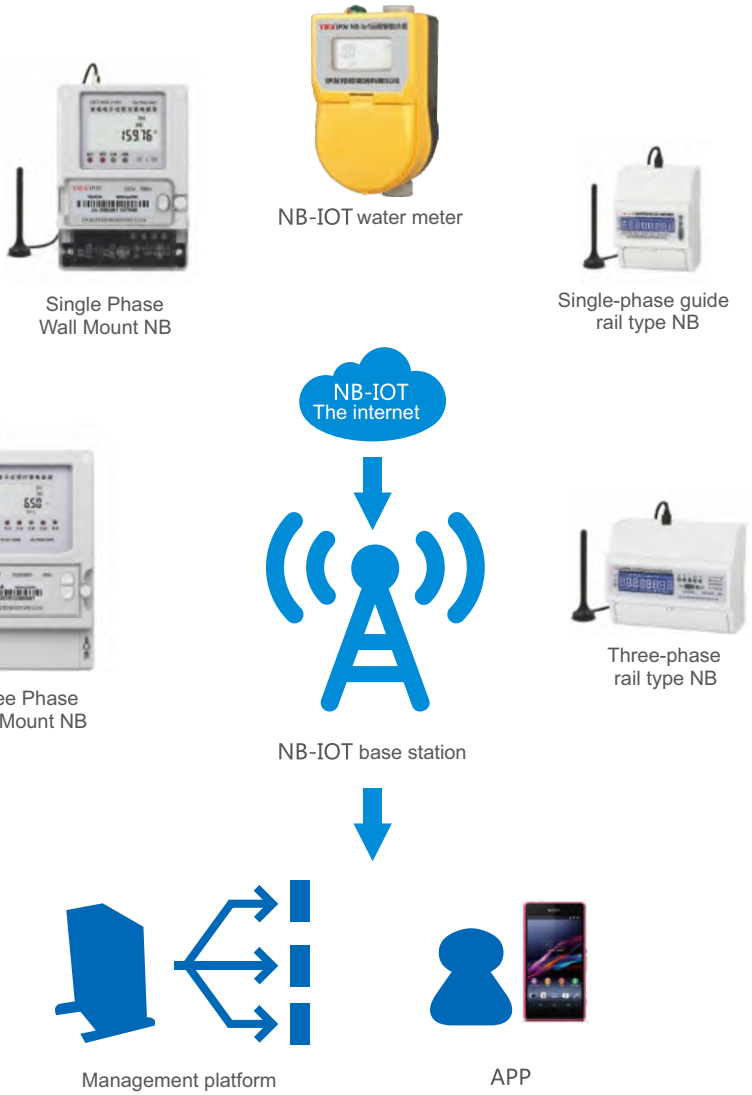


Note:Single-rate electricity price, multi-rate electricity price, and stepped multi-rate electricity price are available. It can be used as DDZY5333 single-phase intelligent cost control electric energy meter and DTZY5333 three-phase four-wire intelligent cost control electric energy meter. Can be customized according to customer requirements.

NB-IOT wireless remote water meter

Smart remote transmission solution

NB-IOT Smart remote transmission solution



An Introduction

- NB-IOT wireless remote water meter can help water meter and electricity meter companies to reduce meter reading costs, real-time data analysis, scientific service management, timely troubleshooting, reduce operating costs, and improve operating efficiency.
- Data security and reliability: NB-IOT is a network that grants authorized frequency components. Its anti-interference ability, data security, technical services and other aspects are all secure and safe, and it is easy for colleagues to promote.
- Low power consumption: NB-IOT has the characteristics of low power consumption, which can solve the problem of complex water meter installation environment.
- Large capacity: NB-IOT has a large capacity, which can meet the simultaneous access of overseas equipment.
- In the future, not only water meters need to be connected to the Internet, but also electric meter devices will need to be connected to the Internet.The low power consumption, wide coverage, large capacity, and low cost of NB-IOT will help the Internet of Things to realize the interconnection of all things faster.

NB-IOT wireless remote water meter

Remote Prepaid Water Meter

NB-IOT wireless remote water meter

NB-IOT wireless remote water meter

Product description

The micro-power NB-IOT remote water meter transmits and receives data wirelessly through NB-IOT. It is a wireless water meter with low power consumption, strong performance and long transmission distance. The chip of the module in the water meter has high anti-interference, high reliability and low power consumption. In addition, the NB-IOT network has been widely covered, and the NB-IOT remote water meter solves the problem that the traditional design scheme cannot take into account long-distance, anti-interference, low power consumption, wide signal coverage and installation convenience at the same time. Become the choice for long-distance transmission and applications with high reliability requirements.

Features

- The intelligent wireless remote water meter system integrates measurement, communication and meter reading control valves. The system includes wireless remote water meter and meter reading system.
- The system is suitable for remote meter reading and control of civil water meters of various building structures such as multi-storey and high-rise slab buildings, towers, villas, and apartments.
- The system is based on NB-IOT communication technology, based on operator network communication, with small communication delay, long and reliable transmission distance.
- The water meter adopts a low-power NB-IOT data transmission module, which realizes low power consumption through dormancy technology processing. The ER18505-ER26500 battery power supply can achieve a 6-year service life.
- There is no need for complicated construction and wiring, the amount of engineering is small, and the installation cost is low.
- Using the communication operator network, there is no need to deploy a base station concentrator, which reduces the difficulty of early debugging and post-maintenance.
- Including metering, anti-magnetic attack, power supply voltage detection, metering value power-down storage function, valve in-position switch state detection, valve control circuit, and automatic dredging valve.
- Data transmission adopts the combination mode of active timing report and trigger report. The water meter will independently report data according to the set reporting period, and the reporting period can be set; users can realize data reporting through external triggers.

Technical parameter

Support operator	Telecommunications	Working water pressure	1MPa
Working frequency	850Hz	Operating temperature	Cold water meter: T30℃ Hot water meter: T90℃
Transmission technology	NB-IOT Technology	water meter battery	Model ER18505M Voltage 3.6V
Transmit power	23dBm (50mW)	Withstand voltage test	1.6MPa-15min ; or 2.0MPa-1min
waterproof level	IP68	Average power consumption	≤ 20μA
Metrology grade	Level 2	Voltage range	2.8~6.0V DC

Flow parameters

Nominal diameter	Overload flow Q4	Common traffic Q3	Boundary flow Q2	Minimum flow Q1
	m^3/h			
15	3.125	25	0.05	0.03125
20	5	4	0.08	0.05
25	7.875	6.3	0.126	0.07875
32	12.5	10	0.2	0.125
40	20	16	0.32	0.2
50	31.25	25	3.15	0.5
65	50	40	5.04	0.8
80	78.75	63	7.94	1.26
100	125	100	12.6	2
125	200	160	20.16	3.2
150	312.5	250	31.5	5
200	500	400	50.4	8
250	787.5	630	79.4	126
300	1250	1000	126	20

Wireless rechargeable smart water meter

Remote Prepaid Water Meter

RF card smart water meter

IC card + Bluetooth smart water meter

Product description

The Bluetooth low energy water meter is a household cold water water meter developed by applying the high-tech Bluetooth BLE4.0 technology and conforming to the "G-B/T778.1, 2, 3-2007" standard. The acquisition part uses OKI reed switch pulse mode, and the electronic part uses advanced BLE-SOC chip technology, thus realizing the perfect combination of flow measurement and wireless transmission.

The Bluetooth low energy water meter has the characteristics of easy installation and maintenance, high protection level, reliability and durability, long battery life, convenient user operation, support for mobile APP technology, and two functions of card swipe + mobile phone Bluetooth.

Features

- Connect with a mobile phone that supports Bluetooth BLE4.0, and automatically upload data to the background system after connection.
- Support ladder price and online price change, insufficient balance reminder.
- The valve is automatically closed when the overdraft balance is exceeded, and the valve is automatically closed when the battery power is insufficient.
- Automatic detection of valve failure, automatic detection of reed switch failure, automatic detection of strong magnetic interference.
- Sealed battery compartment for easy battery replacement.
- Anti-rust function of valve.
- Shell fully sealed design, protection grade Ip68
- You can use the mobile phone to recharge the water meter, check the meter information, and control the water meter valve.

Flow parameters

Water meter model	Accuracy	Overload flow Q4	Common traffic Q3	Boundary flow Q2	Minimum flow Q1
		m^3/h			
DN15	Level 2	3.125	2.5	0.050	0.030
DN20		5.00	4.0	0.080	0.050
DN25		7.875	6.3	0.128	0.080
DN40		2.00	16.00	0.32	0.2
DN50		31.25	25.00	0.5	0.3125

Dimensions and parameters

Nominal diameter DN(mm)	Length L1(mm)	Length L2(mm)	Width H(mm)	Connection nut G	Connection takes over R
DN15	165	255	① 84/ ② 90	G3/4B	R1/2
DN20	195	295	① 84/ ② 90	G1B	R3/4
DN25	225	345	② 115	G1 1/4	R1

Water and electricity card (water meter and electricity meter share one card)

Water and electricity card

All-in-one electric meter

One cartoon water meter

RF Card Reader

Features

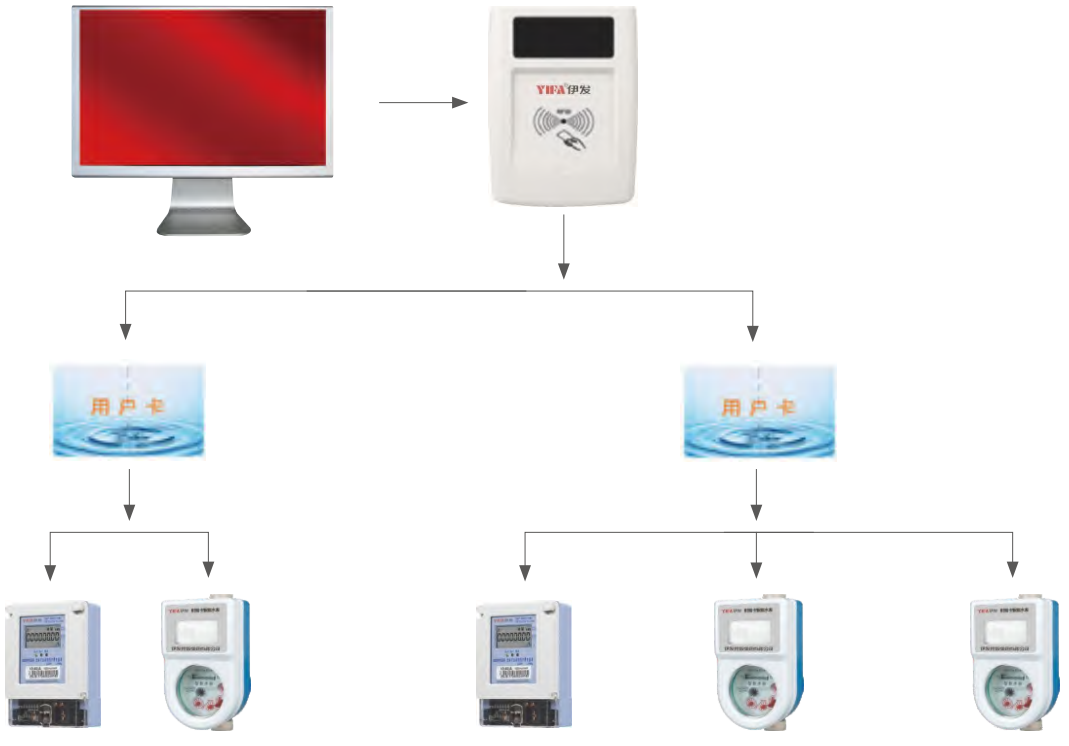
- Support prepaid, solve the difficulty of charging!
- The water and electricity card will help you solve the problem. Pay first, then use water and electricity, and automatically cut off water and electricity in arrears.
- An IC card solves the problem of water and electricity bills.

Water meter + Electricity meter + Water and electricity card + Card reader + Management software

- Build a smart water meter prepayment management system.

Features of Water and Electricity Card

- The water meter and the electricity meter share one card.
- Simple operation, flexible setting and complete functions.
- Anti-theft electricity software design, each computer has an independent serial number.
- One system manages two kinds of tables.
- Pay first, use it later, and stop automatically if there is no fee.



(All-in-one water and electricity meter)
One water and one electricity

(Meter)

(Cold water meter)
Two water and one electricity

(Hot water meter)

DDSU5333 series

Rail-mounted single-phase electronic energy meter


YFM18S


YFM18SA


YFM18SC


YFM18SD

Product description

DDSU5333 series rail-mounted single-phase electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has completely independent intellectual property rights and is a new type of single-phase two-wire active energy meter with a smaller volume in the world. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of the load in the 50Hz or 60Hz single-phase AC power grid, The meter can select the counter and LCD display active power. He has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation and so on.

Functions and Features

- DDSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DDSU5333 series electric energy meter: single pole width (modulus 18mm), in line with DIN43880 standard.
- DDSU5333 series electric energy meter: standard configuration 5+1 digit display (9999999.1 kWh) is displayed by stepping motor pulse counter and LCD display.
- DDSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems in line with IEC62053-21 and DIN43864 standards.
- DDSU5333 series electric energy meter: Two-color LED indicator light indicates power status (green) and electric energy pulse signal (red).
- DDSU5333 series electric energy meter: Automatically detect the flow direction of load current and indicate it (when only the red electric energy pulse signal is working, if there is no green indicating power supply, it means that the flow direction of the load current is opposite).
- DDSU5333 series electric energy meter: You can choose RS485 data communication port, communication protocol load standard DL/T645-1997 or MODBUS-RTU, or you can choose other communication protocols.
- DDSU5333 series electric energy meter: It can measure active power, voltage, current, power, power factor, frequency and other data.
- DDSU5333 series electric energy meter: measure single-phase two-wire active electric energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DDSU5333 series electric energy meter: direct type connection, standard configuration S-type wiring.
- DDSU5333 series electric energy meter: extended terminal cover to protect electricity safety.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM18 Series	Level 1	127/230V	5(20, 5(25) 5(30), 5(32),5(45)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

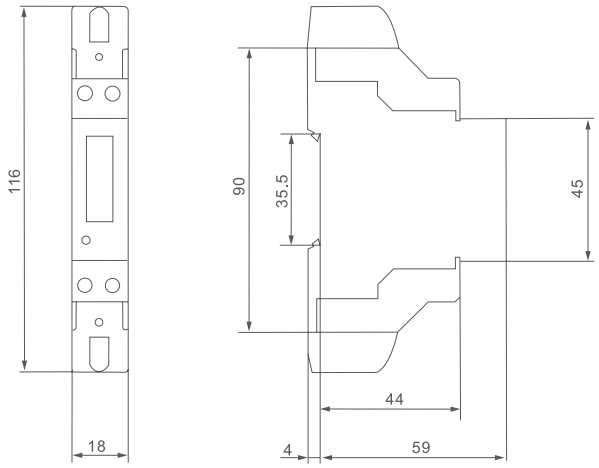
DDSU5333 series

Rail-mounted single-phase electronic energy meter

Feature selection

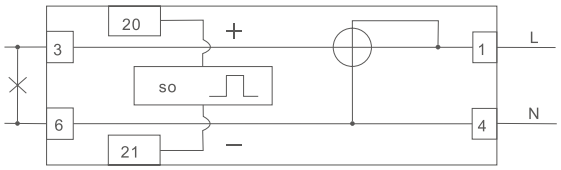
Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM18S	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM18SA	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Optional
YFM18SC	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Optional	Optional	Optional	Without	Optional	Optional
YFM18SD	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Have	Have	Have	Have	Have	Have

Outline and wiring diagram



Wiring Diagram (S Type)

Terminals	Notice
1	Phase line
4	Neutral
3	Phase line outlet
6	Neutral wire outlet
20 and 21	Pulse output port



Wiring Diagram (S Type)

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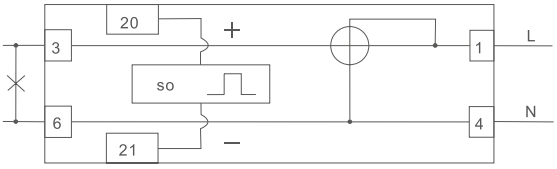


DDSU5333 series

Rail-mounted single-phase electronic energy meter

YFM35S

YFM35SA

YFM35SB

Product description

DDSU5333 type rail-mounted single-phase electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuits, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has completely autonomous intellectual property. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of the load in the 50Hz or 60Hz single-phase AC power grid, The meter can choose the counter and LCD display active power. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DDSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DDSU5333 series electric energy meter: pole width (modulus 17.5 mm), in line with DIN43880 standard.
- DDSU5333 series electric energy meter: standard configuration 5+1 digits (99999.1) counter or 5+1 digits LCD (99999.1) display.
- DDSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, in line with IEC 62053-21 and DIN43864 standards.
- DDSU5333 Series Electric Energy Meter: Two-color LED indicator indicates power status (green) and energy pulse signal (red).
- DDSU5333 series electric energy meter: Automatically detect the flow direction of load current and indicate (when only the red electric energy pulse signal is working, if there is no green indicating power supply, it means that the flow direction of the load current is opposite).
- DDSU5333 series watt-hour meter: can measure active power, voltage, current, power, power factor, frequency and other data.
- DDSU5333 series electric energy meter: measure single-phase two-wire active electric energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DDSU5333 series electric energy meter: direct type connection, standard configuration S-type wiring.
- DDSU5333 series electric energy meter: extended terminal cover and short terminal cover to protect electricity safety.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM35S Series	Level 1 Level 2	220V	2.5(10),5(20),5(60), 10(40),10(80),15(60), 20(80),30(100),	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

Feature selection

Model	Pulse port	RS485 Port	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM35S	Have	Optional	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM35SA	Have	Optional	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Optional
YFM35SB	Have	Without	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Optional
YFM35SC	Have	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM35SD	Have	Optional	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Optional

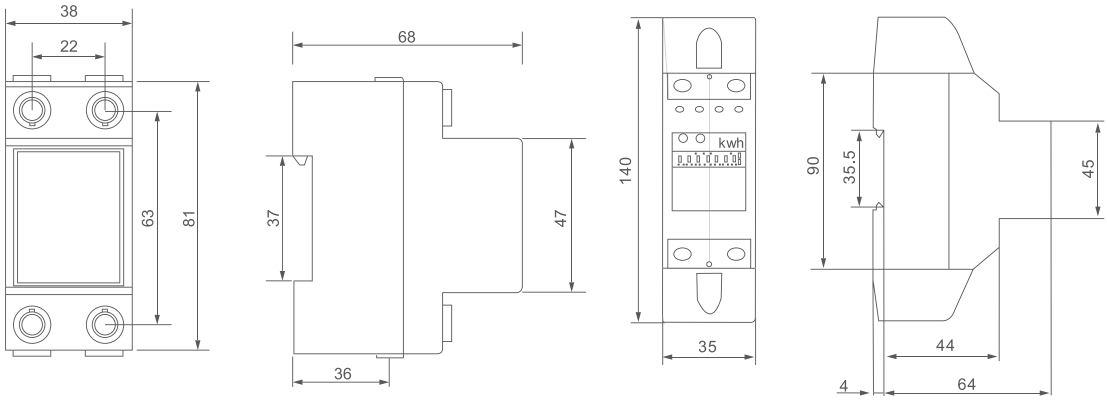
DDSU5333 series

Rail-mounted single-phase electronic energy meter

YFM35SC

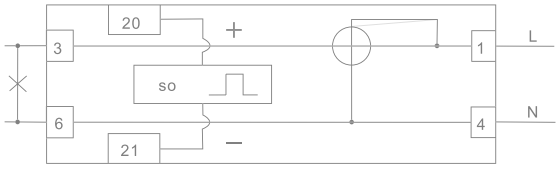
YFM35SD

Outline and wiring diagram



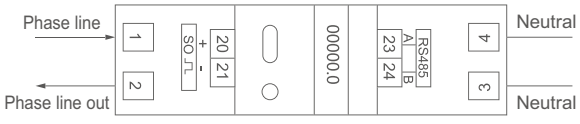
Wiring Diagram (S Type)

Terminals	Notice
1	Phase line
4	Neutral
3	Phase line outlet
6	Neutral wire outlet
20 and 21	Pulse output port



Wiring Diagram (U Type)

Terminals	Notice
1 and 2	Phase In/Out
3 and 4	Neutral in/out
20 and 21	Pulse output port
23 and 24	RS485 port



DDSU5333 series

Rail-mounted single-phase electronic energy meter

YFM75S-U

YFM75SA-U

YFM75SC-U

Product description

The DDSU5333 rail-mounted single-phase electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuits, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new type of single-phase two-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of the load in the 50Hz or 60Hz single-phase AC power grid, The meter displays the active power by an 8-digit LCD display. There are far infrared and RS485 communication modules. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DDSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DDSU5333 series electric energy meter: 6 pole width (module 12.5mm), in line with DIN43880 standard.
- DDSU5333 series electric energy meter: standard configuration 5+1 digit counter or LCD display.
- DDSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems in line with IEC62053-21 and DIN43864 standards.
- DDSU5333 series electric energy meter: far infrared data communication port and RS485 data communication port can be selected, the communication protocol conforms to the standard DL/T645-1997 or 2007 and MODBUS-RTU, and other communication protocols can also be selected.
- DDSU5333 series watt-hour meter: can measure active power, voltage, current, power, power factor, frequency and other data.
- DDSU5333 Series Energy Meter: Two LED indicators indicate power status (green) and energy pulse signal (red).
- DDSU5333 series electric energy meter: Automatically detect the flow direction of load current and indicate (only red electric energy pulse signal. When working, if there is no green indicating power supply, it means that the flow direction of load current is opposite).
- DDSU5333 series electric energy meter: measure single-phase two-wire active electric energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DDSU5333 series electric energy meter: standard configuration U-shaped wiring.
- DDSU5333 series electric energy meter: Short protective cover, reduce installation space and facilitate centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM75S-U Series	Level 1	220V	1.5(6),2.5(10),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

DDSU5333 series

Rail-mounted single-phase electronic energy meter

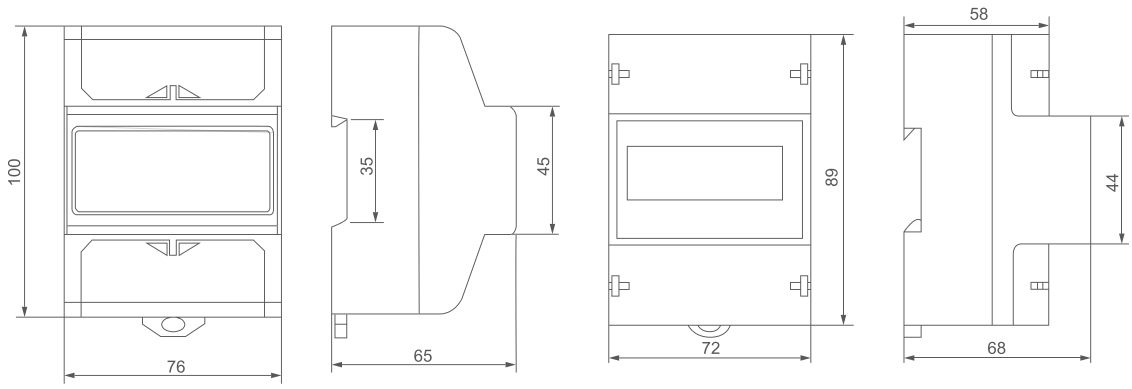
YFM75SD-U

YFM75SF-U

Feature selection

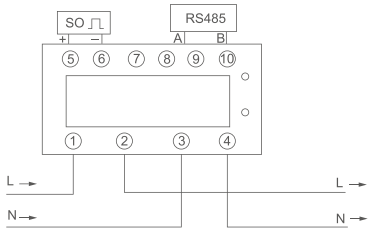
Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM75S-U	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM75SA-U	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM75SC-U	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Optional	Optional	Optional	Optional	Optional	Without
YFM75SD-U	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Have	Have	Have	Have	Have	Optional
YFM75SF-U	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Have	Have	Have	Have	Have	Have

Outline and wiring diagram



Wiring Diagram (U Type)

Terminals	Notice
1/2	L in/L out
3/4	N in/N out
5/6	Pulse output port
9/10	RS485 port



DDSU5333 series

Rail-mounted single-phase electronic energy meter

YFM75S-S

YFM75SA-S

Product description

DDSU5333 series D|N rail type single-phase electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new type of single-phase two-wire active energy meter with completely independent intellectual property rights.Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of the load in the 50Hz or 60Hz single-phase AC power grid, The meter can optionally display active power with a counter and LCD display. There are far infrared and RS485 communication modules. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DDSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DDSU5333 series electric energy meter: 6 pole width (module 12.5mm), in line with DIN43880 standard.
- DDSU5333 series electric energy meter: standard configuration 5+1 digit counter or LCD display.
- DDSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems in line with IEC62053-21 and DIN43864 standards.
- DDSU5333 series electric energy meter: far infrared data communication port and RS485 data communication port can be selected, the communication protocol conforms to the standard DL/T645-1997, 2007 and MODBUS-RTU protocol, and other communication protocols can also be selected.
- DDSU5333 series watt-hour meter: can measure active power, voltage, current, power, power factor, frequency and other data.
- DDSU5333 Series Energy Meter: Two LED indicators indicate power status (green) and energy pulse signal (red).
- DDSU5333 series electric energy meter: Automatically detect the flow direction of load current and indicate (only red electric energy pulse signal. When working, if there is no green indicating power supply, it means that the flow direction of load current is opposite).
- DDSU5333 series electric energy meter: measure single-phase two-wire active electric energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DDSU5333 series electric energy meter: standard configuration S-shaped wiring.
- DDSU5333 series electric energy meter: Short protective cover, reduce installation space and facilitate centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM75-S Series	Level 1	220V	1.5(6),2.5(10),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

DDSU5333 series

Rail-mounted single-phase electronic energy meter

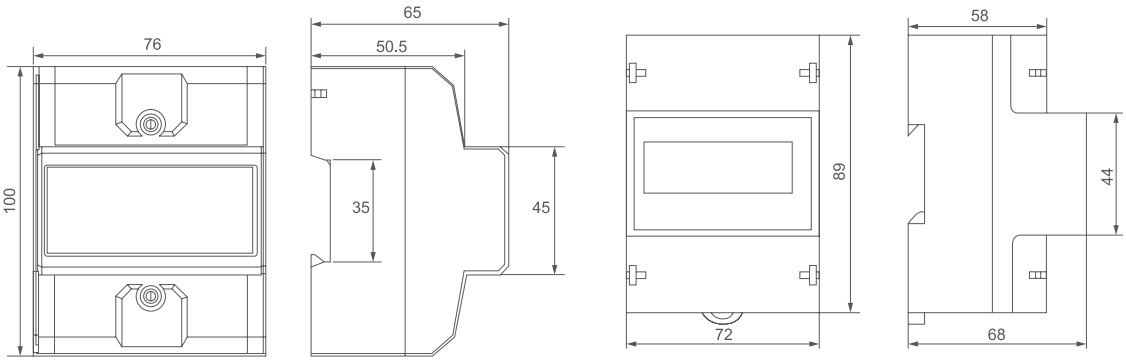
YFM75SC-S

YFM75SB-S

Feature selection

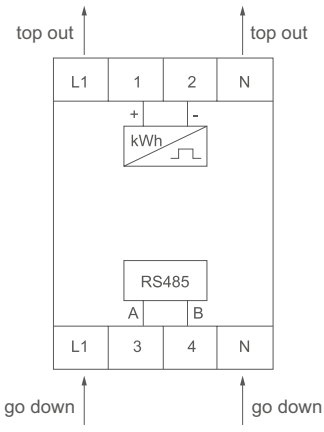
Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM75S-S	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM75SA-S	Pulse	Without	LCD	Have	Without	Optional	Optional	Optional	Optional	Optional	Without
YFM75SC-S	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Optional	Optional	Optional	Optional	Optional	Optional
YFM75SB-S	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Have	Have	Have	Have	Have	Optional

Outline and wiring diagram



Wiring Diagram (S Type)

Terminals	Notice
L1/L2	Phase line
N/N	Neutral
1/2	Pulse port
3/4	RS485 port



DDSU5333 series

Rail-mounted single-phase electronic energy meter

YFM75S-S

YFM75SA-S

Product description

DDSU5333 series DIN rail type single-phase electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new type of single-phase two-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of the load in the 50Hz or 60Hz single-phase AC power grid, The meter can choose the counter and LCD display active power. There are far infrared and RS485 communication modules. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DDSU5333 series electric energy meter: 35mm standard rail installation conforms to DIN EN50022 standard.
- DDSU5333 series electric energy meter: 6 pole width (module 12.5mm), in line with DIN43880 standard.
- DDSU5333 series electric energy meter: standard configuration 5+1 digit counter or LCD display.
- DDSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems in line with IEC 62053-21 and DIN43864 standards.
- DDSU5333 series electric energy meter: you can choose far infrared data communication port and RS485 data communication port, communication protocol load standard DL/T645-1997, you can also choose other communication protocols.
- DDSU5333 Series Energy Meter: Two LED indicators indicate power status (green) and energy pulse signal (red).
- DDSU5333 series electric energy meter: Automatically detect the flow direction of the load current and indicate it (when only the red electric energy pulse signal is working, if there is no green indicating power supply, it means that the flow direction of the load current is opposite).
- DDSU5333 series electric energy meter: Programmable 3 tariff rates and 10 time periods; the external clock chip has the function of calendar, timing and annual automatic switching, and automatically displays the current total and time-sharing electric energy of each tariff.
- DDSU5333 series electric energy meter: measure single-phase two-wire active electric energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DDSU5333 series electric energy meter: direct connection, standard configuration S-type and U-type wiring.
- DDSU5333 series electric energy meter: Short protective cover, reduce installation space and facilitate centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM75 Series	Level 1	220V	1.5(6),2.5(10),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

Feature selection

Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM75S-S	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM75SA-S	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM75SC-U	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM75SF-U	Pulse RS485	DL/T645	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Optional

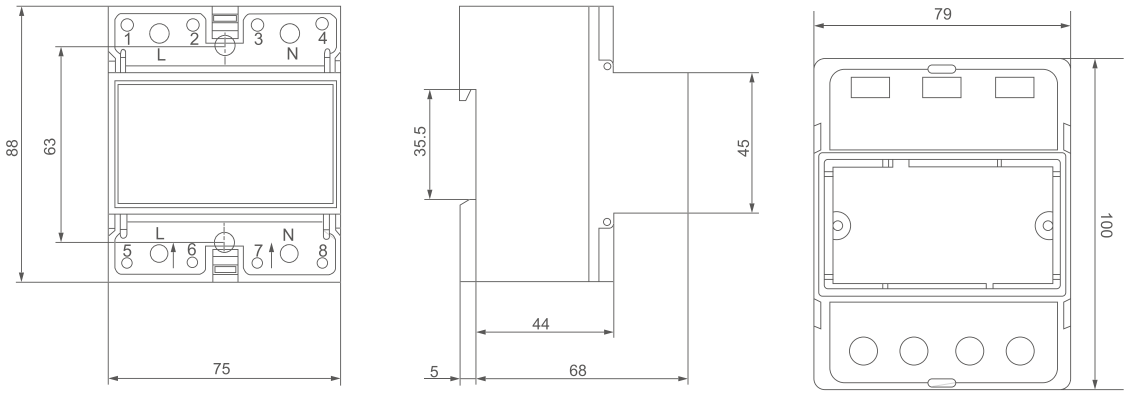
DDSU5333 series

Rail-mounted single-phase electronic energy meter

YFM75SC-U

YFM75SF-U

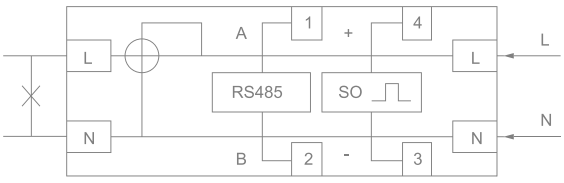
Outline and wiring diagram



Wiring Diagram (S Type)

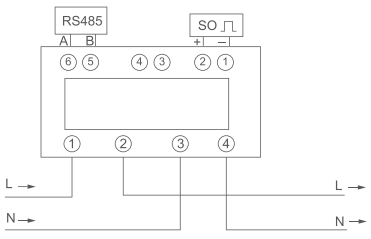
Terminals	Notice
L	Phase line
N	Neutral
3/4	Pulse port
1/2	RS485 port

(Incoming from the bottom, outgoing from the top)



Wiring Diagram (U Type)

Terminals	Notice
2/4	L in/out
6/8	N in/N out
28/27	Pulse output port
22/21	RS485 port



DTSU5333 series

Rail-mounted three-phase four-wire electronic energy meter

YFM024SA

YFM024SB

Product description

DTSU5333 series rail-mounted three-phase four-wire electronic energy meters are developed by our company using microelectronics technology and imported large-scale integrated circuits, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has completely independent intellectual property rights and is the smallest new three-phase four-wire active energy meter in the world. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy of the load in the 50Hz or 60Hz three-phase four-wire AC power grid. consumption, the meter displays the active power by the LCD display.It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DTSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DTSU5333 series electric energy meter: 4 pole width (module 17.5mm), in line with DIN43880 standard.
- DTSU5333 series electric energy meter: standard configuration 6+2-digit LCD display (999999.91 kWh) display.
- DTSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, load IEC62053-21 and DIN43864 standards.
- DTSU5333 series electric energy meter: 4 LED indicators respectively indicate ABC three-phase voltage and pulse.
- DTSU5333 series electric energy meter: RS485 data communication port, communication protocol load standard DL/T645-1997, 2007 and MODBUS-RTU protocol, other communication protocols can also be selected.
- DTSU5333 series electric energy meter: It can measure active power, voltage, current, power, power factor, frequency and other data.
- DTSU5333 series electric energy meter: Automatically detect the flow direction of the load current and indicate (when only the red electric energy pulse signal is working, if there is no green indication; for power supply, this is the opposite direction of the flow of the load current).
- DTSU5333 series electric energy meter: three components in one direction measure active energy consumption of three-phase four-wire. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DTSU5333 series electric energy meter: direct connection, standard configuration S-type wiring.
- DTSU5333 series electric energy meter: short terminal cover to protect electricity safety.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM024 Series	Level 1	3×220/380V	1.5(6),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

DTSU5333 series

Rail-mounted three-phase four-wire electronic energy meter

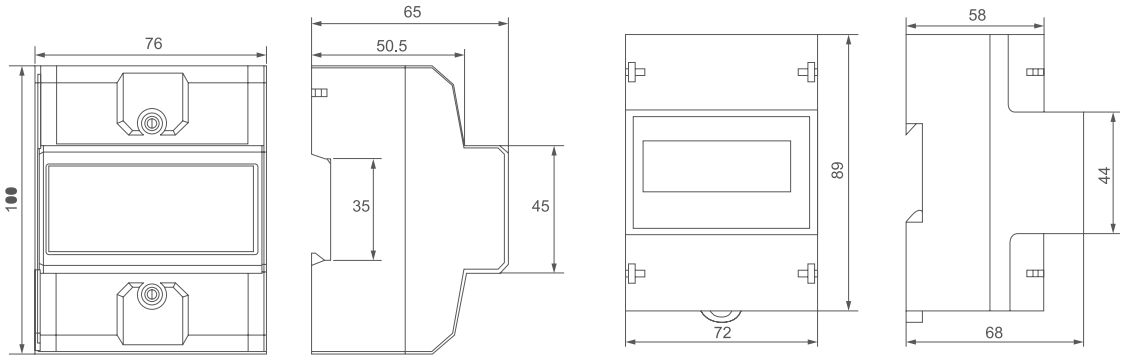
YFM024SC

YFM024SD

Feature selection

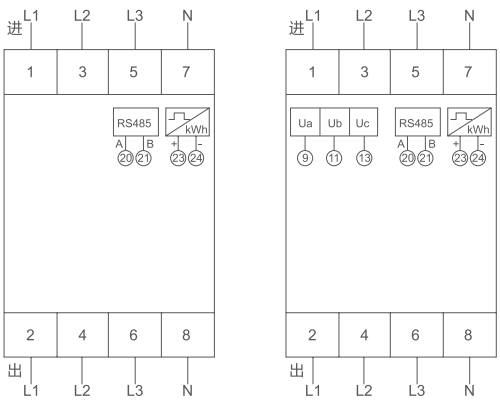
Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Backlight
YFM024SA	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Optional
YFM024SB	Pulse	Without	LCD	Have	Without	Have	Have	Have	Have	Have	Have
YFM024SC	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Optional
YFM024SD	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Have	Have	Have	Have	Have	Have

Outline and wiring diagram



Wiring Diagram (S Type)

Terminals	Notice
1/2	L1 in and out (arrows indicate in)
3/4	L2 in and out (arrows indicate in)
5/6	L3 in and out (arrows indicate in)
7/8	N neutral
9/11/13	Ua/Ub/Uc (CT access)
20/21	RS485 port
23/24	Pulse port



DTSU5333 series

Rail-mounted three-phase four-wire electronic energy meter

YFM1250S-U

YFM1250SA-U

Product description

DTSU5333 series rail-mounted three-phase four-wire electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new three-phase four-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of loads in 50Hz or 60Hz three-phase AC power grids, The meter displays active power by a 7-digit LCD display. There are far infrared and RS485 communication modules. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DTSU5333 series electric energy meter: 35mm standard rail mounting according to DIN En50022standard.
- DTSU5333 series electric energy meter: 10 pole width (modulus 12.5mm), in line with DIN43880 standard.
- DTSU5333 series electric energy meter: standard configuration 5+1 digit counter and 6+2 digit LCD display (99999.11 kWh) display.
- DTSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, in line with IEC 62053-21 and DIN 43864 standards.
- DTSU5333 series electric energy meter: can measure active power, reactive power, voltage, current, power, power factor, frequency and other data.
- DTSU5333 series electric energy meter: Programmable 4 medium tariffs, 10 time periods; the external clock chip has the function of calendar, timing and annual automatic switching, and automatically displays the current total and time-sharing electric energy of each tariff.
- DTSU5333 series electric energy meter: you can choose the far infrared data communication port RS485 data communication port, the communication protocol conforms to the standard DL/T645-1997 and 2007 protocol, or MODBUS-RTU, or you can choose other communication protocols.
- DTSU5333 series electric energy meter: Automatically detect and indicate the flow direction of load current.
- DTSU5333 series electric energy meter: measure three-phase four-wire active energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance is fully in line with GB/T1215.321-2008 standard.
- DTSU5333 series electric energy meter: 5 LED indicators indicate power status (A, B, C), reverse, active energy pulse signal (red).
- DTSU5333 series electric energy meter: standard configuration U-shaped wiring.
- DTSU5333 series electric energy meter: Short protective cover, reduce installation space and facilitate centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM1250-U Series	Level 1	3×220/380V	1.5(6),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

Feature selection

Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM1250S-U	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SA-U	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SC-U	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SD-U	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Have	Have	Have	Have	Have	Without
YFM1250SD-U	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Have	Have	Have	Have	Have	Have	Have

DTSU5333 series

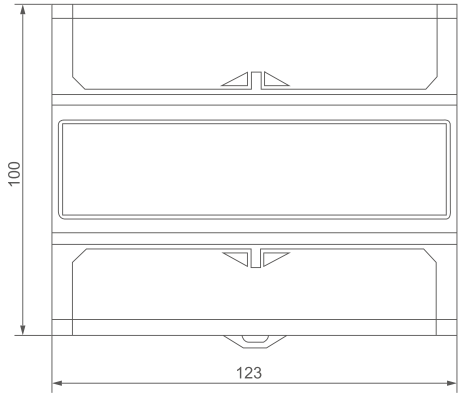
Rail-mounted three-phase four-wire electronic energy meter

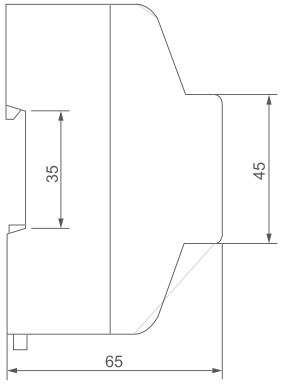
YFM1250SC-U

YFM1250SD-U

YFM1250SF-U

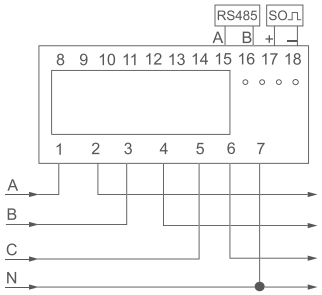
Outline and wiring diagram





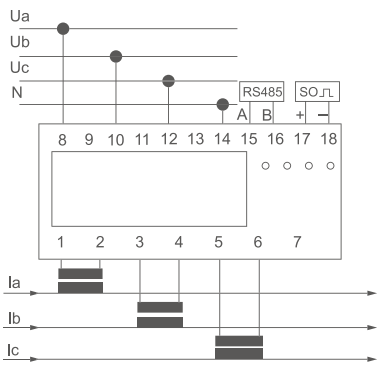
Wiring Diagram (U Type)

Terminals	Notice
1/2	Ia in/out
3/4	Ib in/out
5/6	Ic in/out
7	Neutral
15/16	RS485 port
17/18	Pulse port



Wiring Diagram (U Type)

Terminals	Notice
1/2	Ia in/out
3/4	Ib in/out
5/6	Ic in/out
8/10 12/14	A voltage/B voltage C voltage/N neutral
7	Neutral
15/16	RS485 port
17/18	Pulse port



DTSU5333 series

Rail-mounted three-phase four-wire electronic energy meter

YFM1250S-S

YFM1250SA-S

Product description

DTSU5333 series rail-mounted three-phase four-wire electronic energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new three-phase four-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy of the load in the 50Hz or 60Hz three-phase four-wire AC power grid. Consumption, the meter can select the counter and LCD display active power. There are far infrared and RS485 communication modules. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DTSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DTSU5333 series electric energy meter: 6 pole width (module 12.5mm), in line with DIN43880 standard.
- DTSU5333 series electric energy meter: standard configuration 5+1 digit counter or LCD display.
- DTSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, load IEC62053-21 and DIN43864 standards.
- DTSU5333 series electric energy meter: far infrared data communication port and RS485 data communication port can be selected, the communication protocol conforms to the standard DL/T645-1997, 2007 and MODBUS-RTU protocol, and other communication protocols can also be selected.
- DTSU5333 series electric energy meter: It can measure active power, reactive power, voltage, current, power factor, frequency and other data.
- DTSU5333 series electric energy meter: 4 LED indicators indicate A, B, C power status (yellow green red) and energy pulse signal (red).
- DTSU5333 series electric energy meter: Automatically detect the flow direction of load current and indicate (when only the red electric energy pulse signal is working, if there is no green indicating power supply, it means that the flow direction of the load current is opposite).
- DTSU5333 series electric energy meter: measure three-phase four-wire active energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DTSU5333 series electric energy meter: direct type connection, standard configuration S-type wiring.
- DTSU5333 series electric energy meter: Short protective cover, reduce installation space and facilitate centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM1250-S Series	Level 1	3×220/380V	1.5(6),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

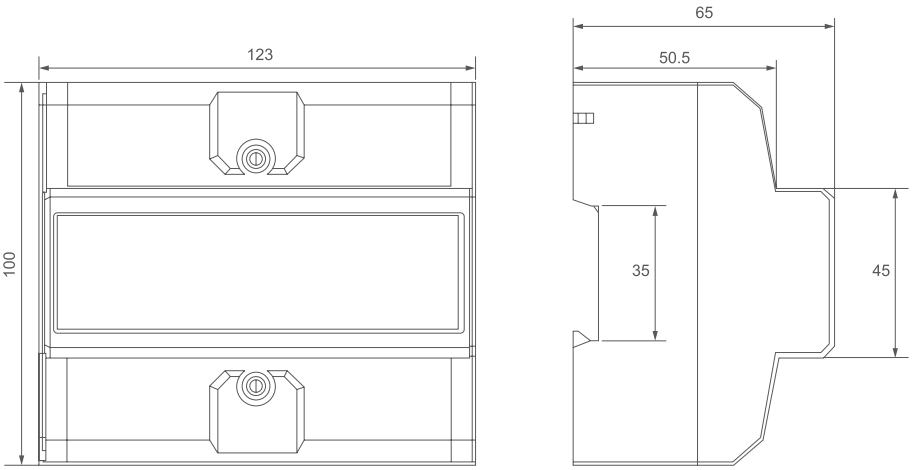
Feature selection

Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM1250S-S	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SA-S	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SC-S	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SD-S	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Have	Have	Have	Have	Have	Optional

YFM1250SC-S

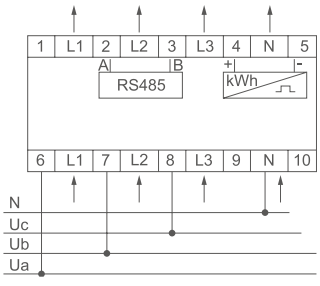
YFM1250SD-S

Outline and wiring diagram



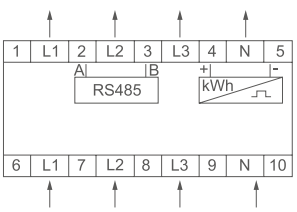
Wiring Diagram (S Type)

Terminals	Notice
L1/L1	In/Out
L2/L2	In/Out
L3/L3	In/Out
N/N	In/Out
2/3	RS485 port
4/5	Pulse output port
6/7/8	Ua/Ub/Uc



Wiring Diagram (S Type)

Terminals	Notice
L1/L1	In/Out
L2/L2	In/Out
L3/L3	In/Out
N/N	In/Out
2/3	RS485 port
4/5	Pulse output port



DTSU5333 series

Rail-mounted three-phase four-wire electronic energy meter

YFM1250S-S

YFM1250SA-S

Product description

DTSU5333 series three-phase electronic energy meter with rail type installation is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new three-phase four-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of loads in 50Hz or 60Hz three-phase AC power grids, The meter can choose the counter and LCD display active power. There are far infrared and RS485 communication modules. It has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation, etc.

Functions and Features

- DTSU5333 series electric energy meter: 35mm standard rail installation, in line with DIN EN50022 standard.
- DTSU5333 series electric energy meter: 10 pole width (modulus 12.5mm), in line with DIN43880 standard.
- DTSU5333 series electric energy meter: standard configuration 5+1 digit counter and 6+1 for LCD display (999999.91 kWh) display.
- DTSU5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, load IEC62053-21 and DIN43864 standards.
- DTSU5333 series electric energy meter: far infrared data communication port and RS485 data communication port can be selected, and the communication protocol conforms to the standard DL/T645-1997.
- DTSU5333 series electric energy meter: 3 tariffs, 12 days can be set, the date of automatic meter reading can be set arbitrarily, and the single tariff function can be selected on weekends.
- DTSU5333 series electric energy meter: built-in clock and maintenance-free lithium battery. The battery capacity can be detected and displayed in real time, and the power data can be saved for 12 months.The data is permanently saved after the breakpoint.
- DTSU5333 series electric energy meter: Automatically detect and indicate the flow direction of load current.
- DTSU5333 series electric energy meter: measure three-phase four-wire active energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DTSU5333 series electric energy meter: 5 LED indicators indicate power status (A, B, C) and electric energy pulse signal (red) and reverse.
- DTSU5333 series electric energy meter: direct type connection, standard configuration S-type wiring.
- DTSU5333 series electric energy meter: short transparent protective cover to reduce installation space and facilitate centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
YFM1250 Series	Level 1	3×220/380V	1.5(6),5(20), 10(40),15(60), 20(80),30(100)	0.04%	Power frequency AC voltage 2kv for 1 minute impulse voltage 6kv

Feature selection

Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
YFM1250S-S	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SA-S	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SC-S	Pulse RS485	DL/T645	LCD	Have	Without	Without	Without	Without	Without	Without	Without
YFM1250SF-U	Pulse RS485	DL/T645	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Optional

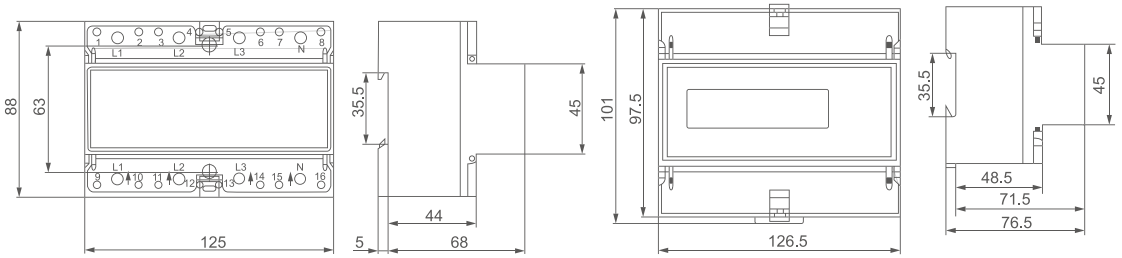
DTSU5333 series

Rail-mounted three-phase four-wire electronic energy meter

YFM1250SC-U

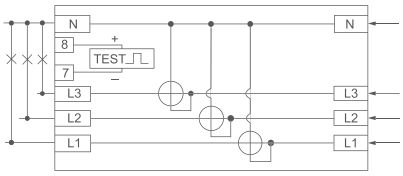
YFM1250SF-U

Outline and wiring diagram



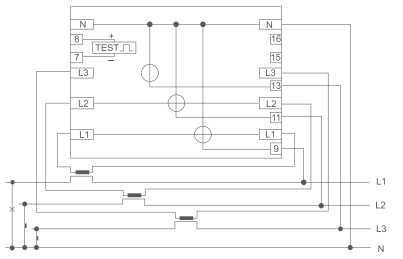
Wiring Diagram (S Type)

Terminals	Notice
L1	L1 in and out (arrows indicate in)
L2	L2 in and out (arrows indicate in)
L3	L3 in and out (arrows indicate in)
N	Neutral
5 and 6	RS485 port
7 and 8	Pulse terminal



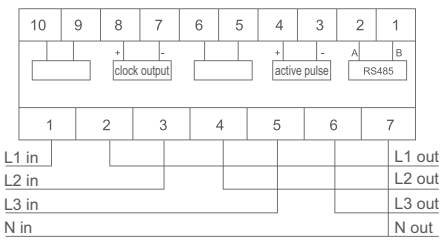
Wiring Diagram (S Type)

Terminals	Notice
L1	CT phase line L1
L2	CT phase line L2
L3	CT phase line L3
5 and 6	RS485 port
7 and 8	Pulse terminal
9	L1 voltage port
11	L2 voltage port
13	L3 voltage port
N	Neutral



Wiring Diagram (U Type)

Terminals	Notice
1/2	CT phase line L1
3/4	CT phase line L2
5/6	CT phase line L3
7	Neutral
1/2	RS485
3/4	Pulse port



DDSUY5333、DTSUY5333 series

Electronic prepaid infrared 485 communication remote power on/off / local electricity sales rail type energy meter

DDSUY5333

DDZUY5333

Product description

DDSUY5333, DTSUY5333 electronic prepaid infrared 485 communication remote power-on/off/local power sales rail-type energy meter is our company using the latest microelectronic technology, with IC card as the power purchase medium and supplemented by electricity bill collection computer management automation software and hardware technology It has various functions such as energy metering, electricity price management, load control, and mobile phone for electricity consumption information. In addition, the meter is equipped with RS485 and R infrared automatic centralized meter reading interface, which provides a more favorable way to collect the electricity consumption of the user's prepaid meter in real time. This meter is suitable for measuring single-phase AC active energy with a rated frequency of 50Hz or 60Hz.

The watch is for fixed installation indoors, suitable for ambient temperature not exceeding -30~+85℃, relative humidity not exceeding 85%, and the air does not contain corrosive gas and avoid the influence of dust, mold, insects, etc.

Functions and Features

- The function of two-way metering can accurately measure the active power energy in both positive and negative directions, and accumulate in one direction, which has the function of preventing electricity theft, and will feedback the information to the electricity sales management system when purchasing electricity next time.
- The use of IC cards and advanced encryption technology ensures that one meter and one card are used, and users can purchase electricity by themselves, without going to the door to read meters and charge, and implement electricity purchases before electricity consumption.
- The electric energy meter is mainly based on the amount of electricity consumption, which is deducted by the unit price of electricity per kilowatt-hour, and the remaining amount in the meter is reserved to multiple decimal places to ensure that the interests of users are not lost.
- The flexible electricity price setting function allows different users to adopt different electricity prices to adapt to the current special user group.
- Double-layer alarm prompt function, when the user's pre-purchased amount is used up, that is, when the remaining amount is less than the displayed alarm amount, the meter will give a visual warning. When the remaining amount is less than the alarm amount, the trip will remind the user to purchase electricity.
- The LCD screen displays the remaining amount, accumulated electricity consumption, unit price of electricity, credit amount, and card number (last 6 digits) in turn.
- It has a variety of fault self-checking functions. When a special fault occurs, the meter will display a corresponding notice to remind the user to troubleshoot.
- Adopt new high-current magnetic latching relay, low power consumption and high reliability.
- L uses the electrical isolation technology to output the pulse signal of the electric energy meter, and the light-emitting diode indicates the electricity consumption, which is stable, reliable, and does not need to be adjusted for long-term work.
- With reliable power-off protection function, data will not be lost after power-off, remain unchanged for 100 years, and can be restored after power-on.
- IC socket self-protection function, when the foreign material such as metal sheet is inserted into the IC socket, the card reading part is automatically protected but does not affect the normal measurement and other functions to ensure that the electric energy meter will not be damaged.
- This product is small in size, light in weight, high in precision, low in power consumption, wide in load, and easy to install and use.

Feature selection

Model	Port	Letter of agreement	Display type	Active power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
DDSUY5333	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without
DDZUY5333	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional

Technical parameter

Model	Precision	Rated voltage Ub	Rated voltage Ib
DDSUY5333	Level 1	220V	1.5(6)A,2.5(10)A,5(20)A, 10(40)A,15(60)A,20(80)A,30(100)A
DDZUY5333	Level 2		

DDSUY5333、DTSUY5333 series

Electronic prepaid infrared 485 communication remote power on/off / local electricity sales rail type energy meter

DTSUY5333

DTZUY5333

Feature selection

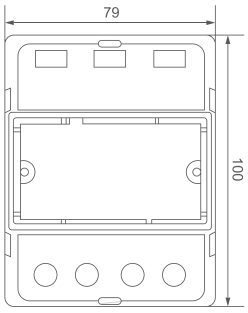
Model	Port	Letter of agreement	Display type	Active power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
DTSUY5333	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without
DTZUY5333	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional

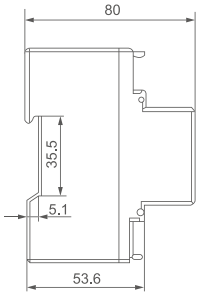
Technical parameter

Model	Precision	Rated voltage Ub	Rated voltage Ib
DTSUY5333	Level 1	3×220/380V	1.5(6)A,5(20)A,10(40)A, 15(60)A,20(80)A,30(100)A
DTZUY5333	Level 2		

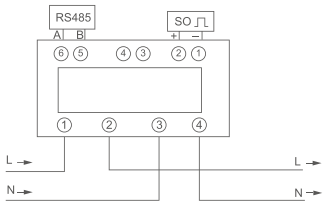
Outline and installation dimensions and Wiring diagram

DDSY5333

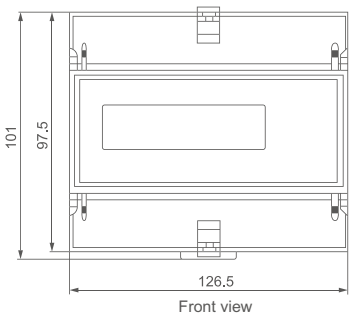




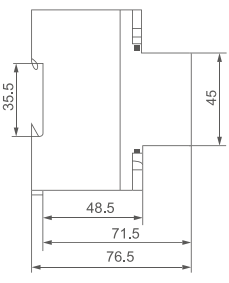
Wiring diagram (U type)



DTSY5333

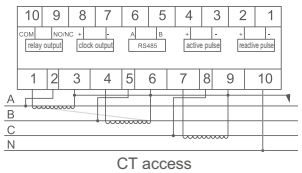


Front view

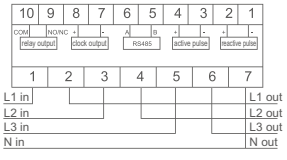


Side view

Wiring diagram



CT access



Direct access

DDSF5333 series

Single-phase panel front-mounted energy meter

DDS5333-S

DDS5333-SA

DDS5333-SC

Product description

DDS5333 series front-mounted single-phase electronic energy meters are developed by our company using microelectronics technology and imported large-scale integrated circuits, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a single-phase two-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy consumption of the load in the 50Hz or 60Hz single-phase AC power grid, The meter can choose the counter and LCD display active power. There are far infrared and RS485 communication modules. He has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation and so on.

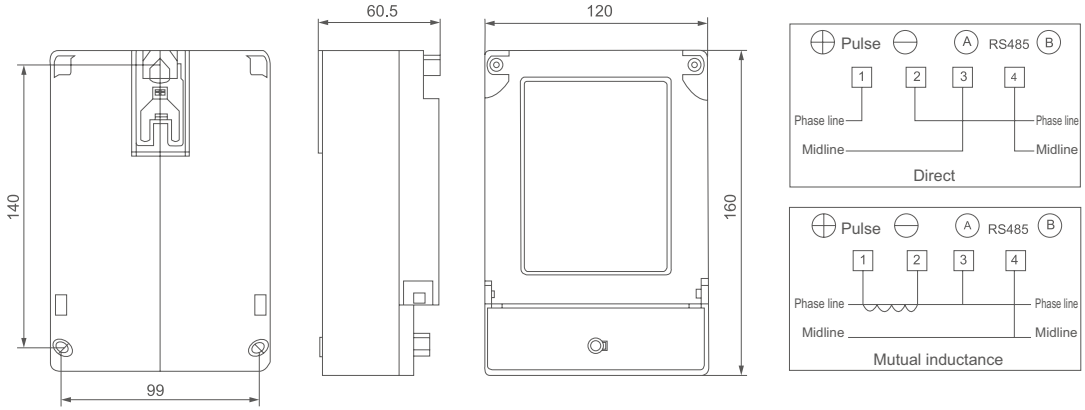
Functions and Features

- DDS5333 Series Electric Energy Meter: Front-mounted single-phase electronic energy meter.
- DDS5333 series electric energy meter: standard configuration 5+1 digit counter or LCD display.
- DDS5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, in line with IEC62053-21 and DIN43864 standards.
- DDS5333 series electric energy meter: far infrared data communication port and RS485 data communication port can be selected, the communication protocol conforms to the standard DL/T645-1997, 2007 and MODBUS-RTU protocol, and other communication protocols can also be selected.
- DDS5333 series electric energy meter: measure single-phase two-wire active energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
DDS5333 Series	Level 1	220V	2.5(10),5(20),10(40), 15(60),20(80),30(100)	0.04%	Power frequency AC voltage 2kv lasted for 1 minute, Impulse voltage 6kv

Outline and installation dimensions and Wiring diagram



DDSF5333 series

Electronic single-phase multi-rate energy meter

1997 Newsletter

2007 Newsletter

Product description

DDSF5333 series electronic single-phase multi-rate electric energy meter is designed by using advanced special-purpose chips for electric energy measurement, combined with mature multi-rate technology, applying digital sampling processing technology and SMT technology, and designed according to the actual electricity consumption conditions of residents , manufacturing, electric energy meter with international advanced level.

The meter realizes time-sharing measurement, automatic data transfer on the set day, programming of handheld terminal or PC, meter reading, LCD display and other functions; it can carry out 4 tariff rates, 10 time periods, 4 time zones and 12-digit meter numbers, etc. set, and has energy test pulse and second pulse output.

This instrument load standard GB/T 15284-2002 "Special Requirements for Multi-Rate Electric Energy Meters" and GB/T17215.321-2008 "Special Requirements for Alternating Current Measuring Equipment Part 21: Static Active Electric Energy Meters (Class 1 and Class 2) ", the communication protocol complies with the technical requirements of "DL/T645-2007 Multifunctional Electric Energy Meter Communication Protocol", DLT645-1997 "Multifunctional Electric Energy Meter Communication Protocol" and other standards.

Functions and Features

- It has the function of measuring forward and reverse active energy. The reverse energy is accumulated according to the forward energy, and the single reverse energy is stored separately. Whether it is communication, time period switching, forward and reverse active energy switching, it will not affect the accuracy of pulse accumulation.
- 4 types of rates (peak, flat, valley) can be set for 8 time periods, which can cross the zero point, and the time period status will not be changed by the influence of interruption, power transmission and other harsh working environments;
- Electric energy is measured and stored according to peak, peak, level, valley and total, reverse total, peak, peak, level and valley respectively.
- The meter can store frozen data for the previous 12 months, including spikes, peaks, flats, and valleys. The freezing day of electric energy data is any day from the 1st to the 28th of each month, and the default is 00:00 on the 1st of each month.
- The battery adopts a needle-welded spare green lithium battery. After a power failure, the spare lithium battery can continuously provide the built-in clock to work normally for at least 10 years.
- Editing and meter reading operations can be completed through infrared and RS-485 communication interfaces.
- The power meter has a power indicator light and power pulse output;
- The meter adopts LCD display mode, which can display parameters such as time, date, and electricity, and allows to set the display time and display content (refer to the manual for details). The number of digits displayed for electric energy is 6 integers and 2 decimals. The default setting is full display, and the display time of each item is 5s;
- The electricity meter adopts a hardware clock circuit. The built-in clock has the functions of calendar timing and leap year automatic switching; after power failure, all stored data will not be lost and can be maintained for more than 10 years.
- Repeated power-off and power-on, the power and the number of pulses will not change;
- Event recording function: it can measure the maximum demand and the occurrence time; record the programming occurrence time and times, the occurrence time and times of power failure, etc.;
- With power failure display function, wide temperature, wide screen LCD display;
- With the function of clock detection output port, it is convenient to check the accuracy of the clock regularly;

Specifications and main technical parameters

- Rated current (A): 1.5(6)A, 5(20)A, 10(40)A, 5(60)A, 15(60)A, 20(80)A, 10(100)A, 30(100)A;
- Rated voltage (V): 220V;
- Rated frequency (Hz): 50Hz or 60Hz;
- Accuracy class: Level 1;
- Communication protocol: DL/T645-1997 or DL/T645-2007;
- Display: LCD screen;
- Clock error: ≤0.5 seconds per day (at the reference temperature) ≤1.0 seconds per day (when the backup lithium battery is working);
- Battery: imported environmentally friendly lithium battery, voltage: 3.0 or 3.6V, capacity ≥1000mAh.

DT(S)S5333 series

Three-phase panel front-mounted electric energy meter

DTS5333-S

DTS5333-SA

DTS5333-SA

Product description

DTS5333 series front-mounted three-phase four-wire electronic energy meters are developed by our company using microelectronics technology and imported large-scale integrated circuits, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a three-phase four-wire active energy meter with completely independent intellectual property rights. Its performance fully complies with the relevant technical requirements of GB/T17215.321-2008 (Class 1 and Class 2 static AC active energy meters), it can accurately and directly measure the active energy of the load in the 50Hz or 60Hz three-phase four-wire AC power grid. Consumption, the meter can select the counter and LCD display active power. There are far infrared and RS485 communication modules. He has the following characteristics: good reliability, small size, light weight, beautiful appearance, easy installation and so on.

Functions and Features

- DTS5333 series electric energy meter: front-mounted three-phase four-wire electronic electric energy meter
- DTS5333 series electric energy meter: standard configuration 5+1 digit counter or LCD display.
- DTS5333 series electric energy meter: standard configuration passive electric energy pulse output (with polarity), easy to connect with various AMR systems, in line with IEC62053-21 and DIN43864 standards.
- DTS5333 series electric energy meter: far infrared data communication port and RS485 data communication port can be selected, the communication protocol conforms to the standard DL/T645-1997, 2007 and MODBUS-RTU protocol, and other communication protocols can also be selected.
- DTS5333 series electric energy meter: can measure active power, reactive power, voltage, current, power, power factor, frequency and other data.
- DTS5333 Series Energy Meter: Two LED indicators indicate power status (green) and energy pulse signal (red).
- DTS5333 series electric energy meter: Automatically detect the flow direction of the load current and indicate it (when only the red electric energy pulse signal is working, if there is no green indicating power supply, it means that the flow direction of the load current is opposite).
- DTS5333 series electric energy meter: measure single-phase two-wire active energy consumption in one direction. Regardless of the direction of flow of the load current. Its performance fully complies with GB/T17215.321-2008 standard.
- DTS5333 Series Electric Energy Meter: Short protective cover reduces installation space and facilitates centralized installation.

The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
DTS5333 Series	Level 1	3x220/380V 3x57.7/100V	1.5(6),5(20),10(40), 15(60),20(80),30(100)	0.04%	Power frequency AC voltage 2kv lasted for 1 minute, Impulse voltage 6kv

Feature selection

Model	Port	Letter of agreement	Display type	Active power	Reactive power	Voltage	Current	Power	Power factor	Frequency	Multiple rate
DTS5333-S	Pulse	Without	Counter	Have	Without	Without	Without	Without	Without	Without	Without
DTS5333-SA	Pulse	Without	LCD	Have	Without	Without	Without	Without	Without	Without	Without
DTS5333-SC	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Without	Without	Without	Without	Without	Without	Without
DTS5333-SD	Pulse RS485	DL/T645 MODBUS-RTU	LCD	Have	Optional	Optional	Optional	Optional	Optional	Optional	Without

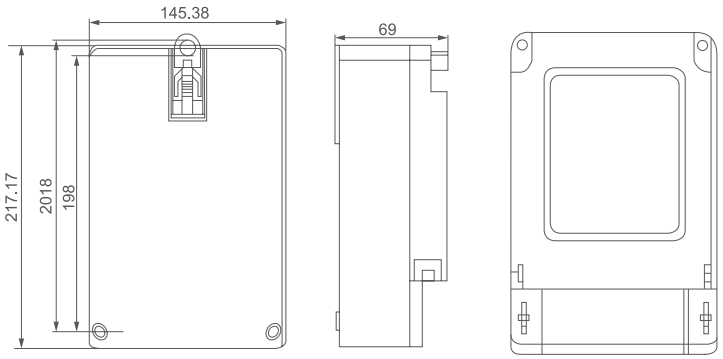
DT(S)S5333 series

Three-phase panel front-mounted electric energy meter

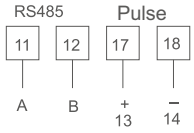
DTS5333-SC

DTS5333-SD

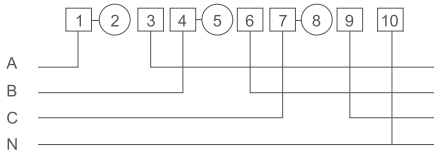
Outline and installation dimensions and Wiring diagram



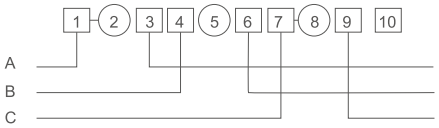
Test Terminal Wiring:



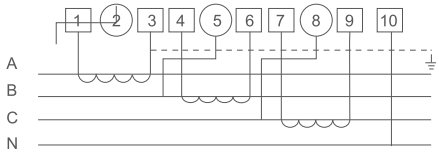
Line Terminal Wiring Diagram:



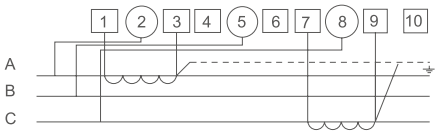
DTS three-phase four-wire direct access wiring diagram



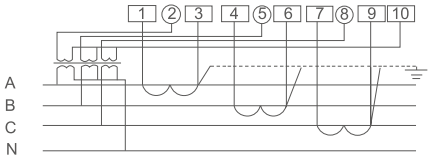
DSS three-phase three-wire direct access wiring diagram



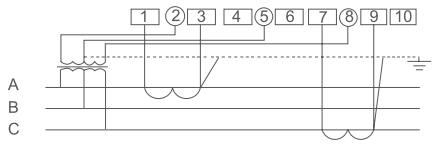
DTS three-phase four-wire current transformer access wiring diagram



DSS three-phase three-wire current transformer access wiring diagram



DTS three-phase four-wire current and voltage transformer access wiring diagram



DSS three-phase three-wire current and voltage transformer access wiring diagram

DDSY5333、DTSY5333 series

Electronic prepaid panel front mount electric energy meter

DTSY5333-1

DTSY5333-2

Card reader

Product description

DTSY5333, DSSY5333 series electronic prepaid electric energy meters are our company adopting new microelectronic technology, using IC card as electricity purchase medium and supplemented by electricity bill collection computer management automation software and hardware technology. Electricity information collection and other functions, and at the same time realize the electricity management system of purchasing electricity first and then using electricity, and realize the intelligent all-electronic energy meter of electric energy commercialization. In addition, the meter is equipped with RS485 and IR infrared automatic centralized meter reading interface, which provides a more favorable way to collect the electricity consumption of users' prepaid meters in real time. This meter is suitable for measuring three-phase AC active energy with a rated frequency of 50Hz or 60Hz.

This watch is for fixed installation indoors, suitable for ambient temperature not exceeding -30℃~+85℃ and relative humidity not exceeding 85%. And the air does not contain corrosive gas and avoid the influence of dust, sand, mold, insects and so on.

Functions and Features

- The function of two-way metering can accurately measure the active electric energy in the forward and reverse directions, and accumulate in one direction, with the function of preventing electricity theft. The information will be fed back to the electricity sales management system during the next electricity purchase.
- Use IC card and cooperate with advanced encryption technology to ensure one meter and one card. Users can purchase electricity by themselves, without going to the door to read meters and charge, and implement electricity purchase first and then use electricity.
- The electric energy meter is mainly based on the amount of electricity consumption, which is deducted according to the unit price of electricity for every 0.01 kWh of electricity, and the remaining amount in the meter is reserved to multiple decimal places to ensure that the interests of users are not lost.
- The flexible electricity price setting function allows different users to adopt different electricity prices to adapt to the current special user group.
- Double-layer alarm prompt function, when the user's pre-purchased amount is used up, that is, when the remaining amount is less than the displayed alarm amount, the meter will give a visual warning. When the remaining amount is less than the alarm amount, the trip will remind the user to purchase electricity.
- The high-brightness LCD liquid crystal displays the cumulative power consumption and the remaining amount in turn.
- It has perfect self-checking functions for various faults. Once a special fault occurs, the meter will display corresponding notices to remind users to troubleshoot.
- Adopt new high-current magnetic latching relay, low power consumption and high reliability.
- Using the electrical isolation technology to output the pulse signal of the electric energy meter, the light-emitting diode indicates the electricity consumption, which is stable and reliable, and does not need to be adjusted for long-term work.
- With reliable power-off protection function, data will not be lost after power-off, remain unchanged for 100 years, and can be restored after power-on.
- The IC socket self-protection function, when the foreign material such as metal sheet is inserted into the IC socket, the card reading part is automatically protected but does not affect the normal measurement and other functions to ensure that the electric energy meter will not be damaged.
- The automatic detection function of the rear cover or cover of the electric energy meter will prevent all the behaviors of stealing electricity. This function is optional.
- This product is small in size, light in weight, high in precision, low in power consumption, wide in load, and easy to install and use.
- You can choose far infrared data communication port and RS485 data communication port, the communication protocol conforms to the standard DL/T645-1997, DL/T645-2007, MODBUS-RTU protocol.

The main technical parameters

Model	Level of accuracy	Reference voltage	Rated current	Access method	Meter constant
DTSY5333	1or 2	3x220/380V 3x57.7/100V 3x100V 3x380V	3x1.5(6)	Transformer	1600
			3x5(20)	Direct	800
			3x10(40)	Direct	400
			3x15(60)	Direct	400
			3x20(80)	Direct	400
			3x30(100)	Direct	400

DDSY5333、DTSY5333 series

Electronic prepaid panel front mount electric energy meter

DDSY5333-1

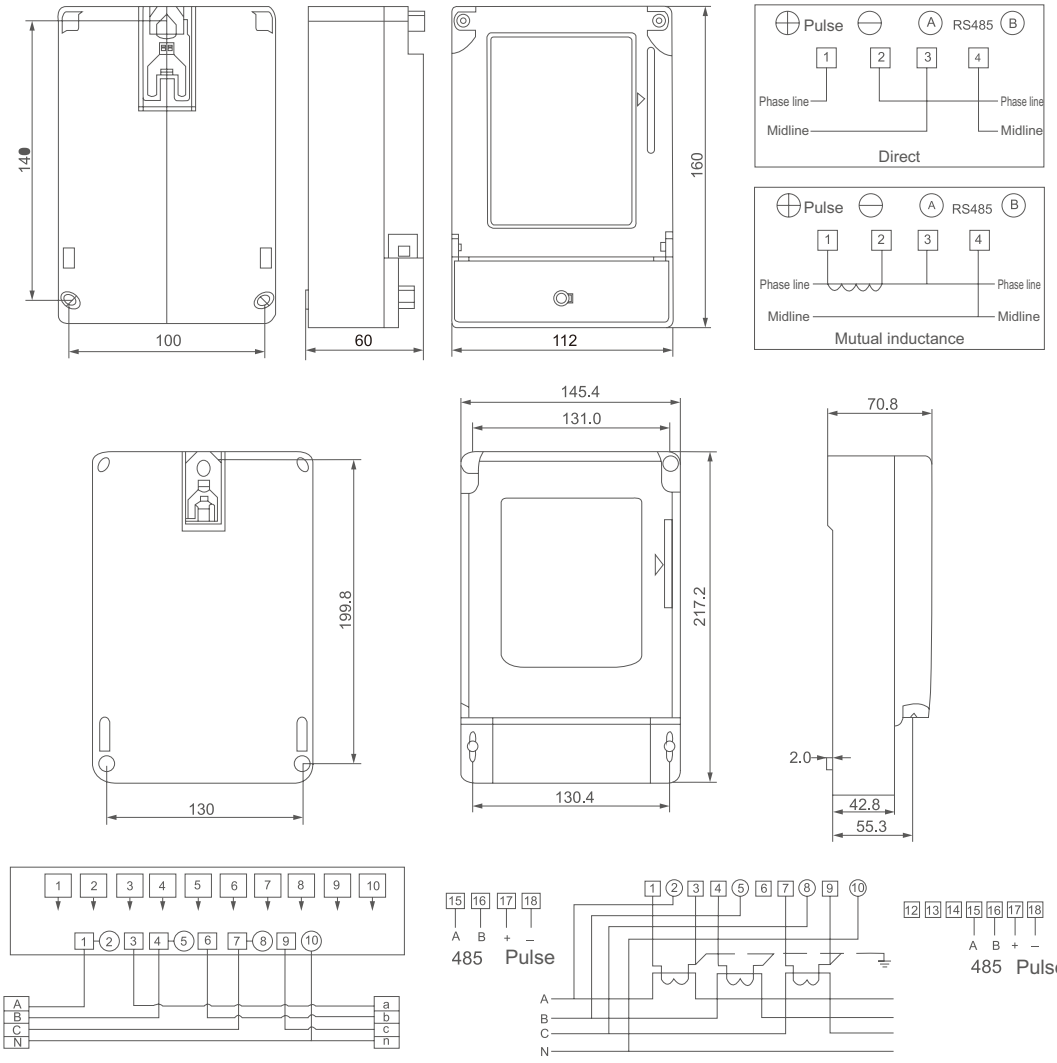
DDSY5333-2

DDSY5333-3

Product Specifications

Model	Reference voltage	Reference frequency	Accuracy class	Basic current (maximum current)
DDSY5333	220V	50Hz、60Hz	Level 1, Level 2	1.5(6)A,5(10)A ,5(20)A,10(40)A, 15(60)A,20(80)A,30(100)A,

Outline and installation dimensions and Wiring diagram



The electric meter is equipped with a shunt release, and the function terminal connection of the electric meter when the coil voltage of the shunt release is 220V: the functional terminal 13 is connected to the change of the electric meter, and 14 is connected to one end of the shunt release. The terminal is connected to the other end of the shunt release.

DTSF5333、DSSF5333 series

Three-phase electronic multi-rate panel-mounted energy meter

DTSF5333

Pocket PC

Product description

DTSF5333, DSSF5333 series three-phase four-wire, three-phase three-wire electronic multi-rate electric energy meter is used to measure the active energy of three-phase four-wire and three-phase three-wire. It adopts new microprocessor technology and high-precision wide-range digital energy metering chip. The design has high precision, wide range, high stability and low power consumption. The structure is dignified and stable, and the special LCD or high-brightness special LED display is adopted, as well as the production of military components, so that the electric energy meter has a long service life, is maintenance-free, and is convenient for meter reading. This product can be measured in both forward and reverse directions, has the ability to prevent reverse connection stealing, and provides pulse output, which is convenient for users to detect. It is an excellent product for the country to implement the time-of-use electricity price policy.

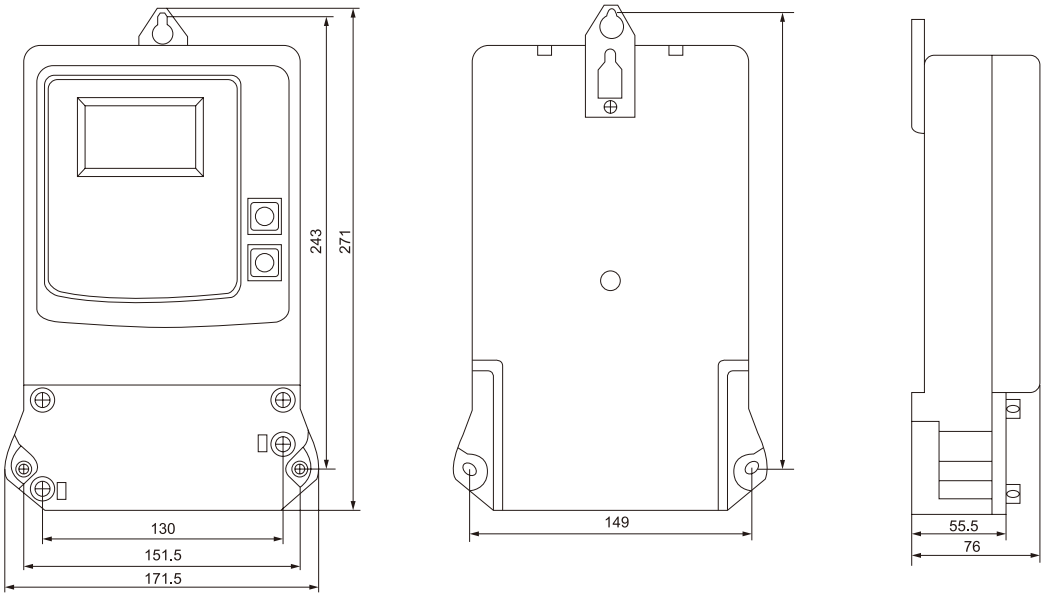
Product Specifications

Model	Precision	Insulation properties
DTSF5333 Three-phase four-wire	3x57.7/100V 3x220/380V	3x1.5(6)A , 3x3(6)A , 3x10(40)A , 3x15(60)A , 3x20(80)A , 3x30(100)A
DSSF5333 Three-phase three-wire	3x100V 3x380V	3x1.5(6)A , 3x3(6)A , 3x5(20)A , 3x10(40)A , 3x15(60)A , 3x20(80)A , 3xB0(100)A

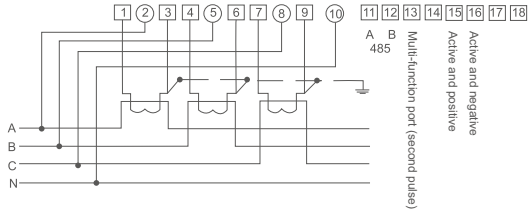
The main technical parameters

Project	Technical indicators
Executive standard	GB/T15284-2002、 DL/T645-1997、 GB/T17215.321-2008/IEC61036:2000
Grade index	1、2
Power consumption	< 2W(10VA)
Display function	Programmable setting wheel display content, power failure display
Time-of-use rate	Peak, flat, valley 3 rates 8 periods, peak, sharp, flat, valley 4 rates 12 periods of energy metering
communication	Support infrared communication meter reading, RS485 communication meter reading (optional)
Clock Accuracy	The clock accuracy is not more than 0.5s/d (23℃)
Static working (mains) current	< 10μA
Battery	3.6V, 1200mAh, reliable power outage time is more than 75000 hours
Meter reading day	It can be set at a certain time of day to save the battery for 12 months
Load representative day	1~28th of every month

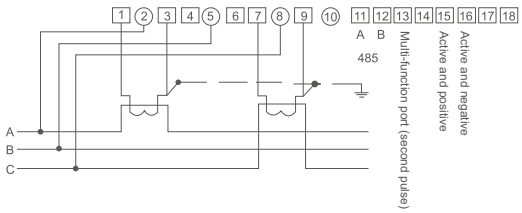
Shape and installation dimensions



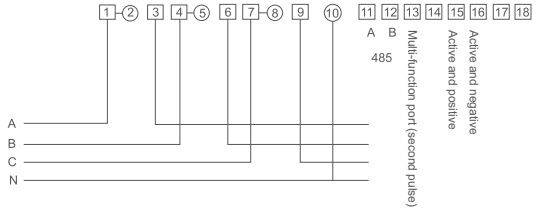
Wiring diagram



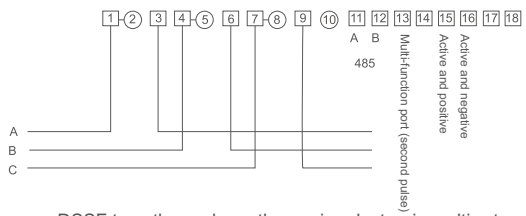
DTSF type three-phase four-wire electronic multi-rate electric energy meter wiring diagram (current mutual inductance type)



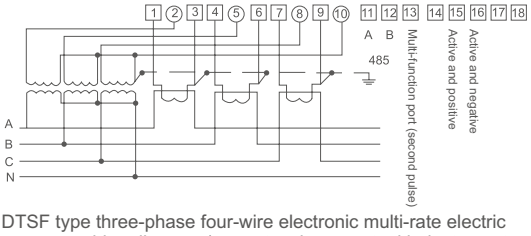
DTSS type three-phase three-wire electronic multi-rate electric energy meter wiring diagram (current mutual inductance type)



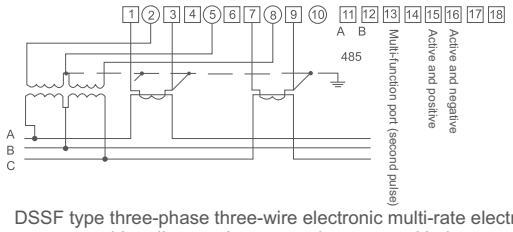
DTSF type three-phase four-wire electronic multi-rate electric energy meter wiring diagram (direct type)



DSSF type three-phase three-wire electronic multi-rate electric energy meter wiring diagram (direct type)



DTSF type three-phase four-wire electronic multi-rate electric energy meter wiring diagram (current, voltage mutual inductance type)



DSSF type three-phase three-wire electronic multi-rate electric energy meter wiring diagram (current, voltage mutual inductance type)

DDZY5333、DTZY5333C-Z series

Install the electric energy meter in front of the cost control smart board

DDZY5333

DDZY5333-Z

DTZY5333

Product description

DDZY5333, DTZY5333C-Z cost-controlled smart energy meters, with time-of-use billing and step-by-step billing functions, can better balance the grid load , split-phase active energy meter setting, forward and reverse active power demand measurement, time-of-use metering, time-of-use billing, ladder billing, far-infrared communication, power line carrier communication, RS485 communication, event recording, user-friendly cost control, meter reading Daily power automatic transfer, hourly, appointment, timing, instant freezing and load recording functions.

The meter adopts high-efficiency 16-bit MCU chip and chip and special energy metering chip, adopts the national secret SM1 algorithm, and encrypts the sensitive interest rate at the hardware and software levels. It can also be used as the terminal equipment in the remote centralized meter reading system, using the low-voltage power line as the communication medium to maintain a reliable communication connection with the centralized controller installed in the distribution transformer area, and using half-duplex communication Its current remaining amount, electric energy and other data are transmitted to the concentrator, and the electricity price plan can also be set into the meter through the main station or the user IC card, which is an ideal choice for users to prepay for electricity consumption and real-time remote meter reading.

Reference standard

- GB/T15284-2002 "Special requirements for multi-rate electric energy meters";
- GB/T17215.321-2008 "Special Requirements for Alternating Current Measuring Equipment - Part 12 Static Active Energy Meters (Level 1 and Level 2)";
- DL/T645-2007 "Multifunctional Electric Energy Meter Communication Protocol";
- DL/T698-1999 "Technical Conditions for Centralized Meter Reading System for Low-Voltage Power Users".

Reference standard

- Convergence forward and reverse time-sharing measurement of active energy, reactive energy, and active demand.
- Phase-split forward and reverse metering of active energy.
- Convergence forward and reverse metering active power maximum demand.
- The active energy measurement is accurate, and it does not need to be adjusted for long-term work.
- Voltage, current, power measurement functions.
- IC card prepaid function, the remaining amount is insufficient to alarm.
- It has the function of ladder billing, and the starting power and dielectric of the ladder can be set.
- Year time zone, tariff period, tariff electricity price can be set.
- With local cost control function.
- The power carrier communication is carried out by software spread spectrum method, which is accurate, reliable and has strong reading ability.
- Mutual automatic relay function.
- The carrier communication address is automatically applied.
- Data storage function: store electricity and other important data for the last 12 settlement days.
- Timing Freeze: Store 12 specified time and time interval data such as electricity.
- Instantaneous freeze: It can accept instant freeze command, freeze power and other data, and store the last 3 data.
- Agreed Freeze: Store the last 2 new and old sets of time period/rate/tiered electricity price conversion data such as electricity.
- Day Freeze: Freeze data such as electricity at zero o'clock every day or at a set time, and store data for 2 months.

Reference standard

- Load record: record a number of operating parameters, record items, interval time, start time can be set.
- Event logging function.
- Active event reporting function.
- With infrared, RS485 and power carrier communication interfaces.
- The broadcast time calibration does not require a response, only when the time difference between the slave station's calendar and clock and the master station is within ±5min, the time calibration command is executed, and only one calibration is allowed per day.
- The information is displayed by LCD with backlight function.
- With backup battery, it can realize power failure meter reading and power failure display functions.
- Input and output interface

  ①Passive active and reactive pulse output interface with optocoupler isolation;

  ②Infrared remote control programming and meter reading interface, refer to DL/T645_2007 standard;

  ③ Multi-function output interface for daily timing error detection signal, demand calculation cycle and time period switching signal.

The main technical parameters

- Reference current: 1.5A, 5A, 10A, 20A;
- Reference voltage: 3x220/380V, 3x57.7/100V, 3x100V, 3x380V;
- Reference frequency: 50Hz;
- Basic error: meet the requirements of GB/T17215.321-2008;
- Starting current: ≤0.004Ib (direct access type);
- Creeping: When 115% of the reference voltage is applied and there is no current in the current line, the meter output should not generate more than one pulse.
- Power consumption: voltage line power consumption (non-communication state): ≤1.5W, 10VA;
- Voltage line power consumption (communication state): ≤3W, 12VA;
- Current line power consumption: ≤1VA(Ib);
- Operating temperature range: -25°C ~60°C;
- Extreme working temperature: -40°C ~70°C;
- Storage and transportation extreme temperature range: -40°C ~70°C;
- Relative Humidity: Annual average <75%; 95% over 30 days (the days of the year are distributed in a natural way); 85% by chance on other days;
- Atmospheric pressure: 63.0kPa~ 106.0kPa (altitude 4000m and below);
- Normal working voltage: 0.9Un~1.1Un;
- Extended working voltage: 0.8Un~1.15Un;
- Limit working voltage: 0.7Un~1.15Un;
- Clock accuracy: ≤0.5 seconds/day (reference temperature 23°C);
- Lithium battery capacity: ≥1.2Ah, the clock can work for ≥5 years after a power failure;
- Data storage time after power failure: ≥10 years;
- Product life: >10 years;
- Dimensions: 290x170x85mm;
- Power pulse width: 80 ± 20ms, typical value: 80ms;
- Infrared communication rate: 1200bps;
- RS485 rate: 2400bps (typical value), 600, 1200, 2400, 4800, 9600 (can be set);
- Communication protocol: in line with DL/T645-2007 "Multi-function meter communication protocol"
- IC card: It has anti-short-circuit and anti-static protection circuits, and the card holder can withstand no less than 20,000 IC card insertion and removal operations;
- Carrier module interface: a standard interface that meets the requirements of the national national grid, the communication rate between the carrier module and the meter is 9600bps.

DTSD5333、DSSD5333 series

Three-phase electronic multi-function panel front-mounted energy meter

DTSD5333

Pocket PC

Product description

DTSD5333, DSSD5333 series three-phase electronic multi-function energy meters are new generation products of our company that can realize active and reactive energy measurement, multi-rate and other functions. This product adopts modular design, multiple functions It can be freely combined to meet the different needs of the vast number of users on the watt-hour meter. The performance index of this product conforms to GB/T17215.322-2008 "0.5S and 0.2S class static AC active energy meter", GB/T17215.323-2008 "2 and 3 class static AC reactive energy meter" The technical requirements in the national standard and the DL/T614-2007 "Multifunctional Electric Energy Meter" standard, and the communication protocol conforms to the DL/T645-2007 "Multifunctional Electric Energy Meter Communication Protocol" and special protocols required by users.

The main function

- Electric energy metering function: It can measure and display active and reactive energy separately, and has independent active and reactive pulse signal output ports.
- Multi-rate function: a. Four types of rates, ten time periods; b. Automatic switching of the 100-year calendar (1996-2095); active and reactive power.
- Statistical function is required: a. It can record the maximum active power demand and its occurrence time; b. The demand statistics adopts the slip method; C. The maximum demand is stored monthly; d. It has the function of overload automatic alarm and tripping.
- Voltage loss recording function: a. It has 9 voltage loss and power failure records, and can record its start and recovery time; b. It can record the total active and reactive power of the phase without voltage loss.
- Programming and meter reading functions: a. The instrument has RS4S5 communication interface; b. Programming and meter reading can be done in various ways such as RS485 communication interface, infrared communication interface, PDA, etc. At the same time, meter reading can be performed through remote control and wheel display.
- Zero-point meter reading function: a. The meter reading set date is from 1 to 28 of each month, the meter can automatically settle at 24:00 on the set day and store various data of the previous month; b. The meter can store data at the same time Store and display various data for 3 months.
- Power failure meter reading function: The meter is equipped with an independent meter reading battery, which can complete the meter reading function in the event of a power failure.

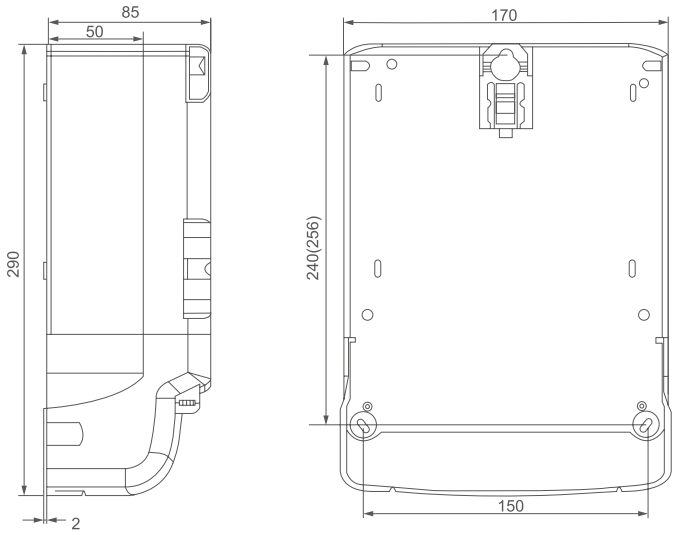
Product Specifications

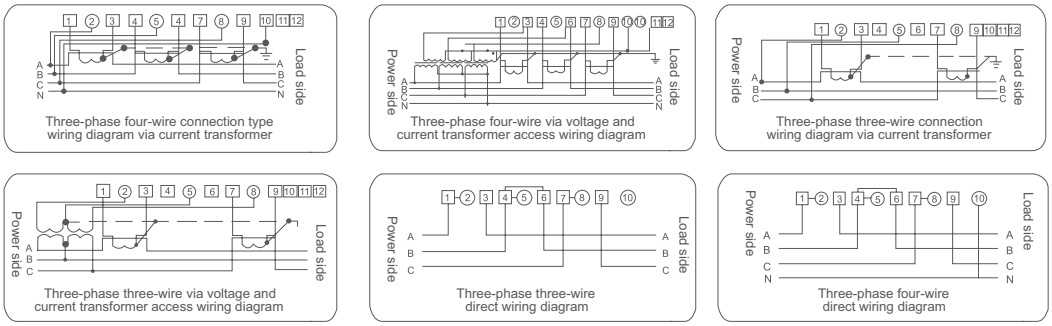
Model	Rated voltage	Calibration current value	Grade index
DSSD5333 three-phase three-wire	3x100V 3x380V	3x3(6)A , 3x1.5(6)A	Active: 0.5S/1 Reactive: 2
DTSD5333 three-phase four-wire	3x57.7/100V 3x220/380V	3x1.5(6)A, 3x5(20)A, 3x10(40)A, 3x15(60)A, 3x20(80)A,3x30(100)A	

The main technical parameters

Project	Technical indicators
Grade index	Active 0.5s, 1. Reactive 2
Clock error	≤0.5 seconds/day
Reference temperature	23°C
Data protection	Data storage time after power failure≤10 years
Environmental conditions	Specified operating temperature: -20°C ~45°C
Relative humidity	≤85%(under ambient temperature 23°C)

Outline and installation dimensions and Wiring diagram





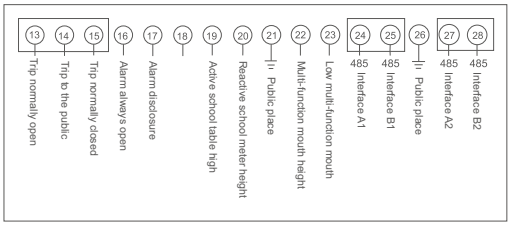


Figure 3: Wiring diagram of main terminal and function terminal

Note: The actual main line diagram and functional terminal wiring diagram are subject to the meter end cover.

DDSY5333、DTSY5333 series

Coded prepaid panel front mount electric energy meter

UIU split display

DDSY5333-DD

DDSY5333-D

DTSY5333-D

Product description

DDSY5333/DTSY5333 code type prepaid electric energy meter is developed by our company using microelectronic technology and imported large-scale integrated circuit, applying advanced digital sampling processing technology and SMT technology and other advanced technologies. It has a new type of single-phase two-wire active energy meter with completely independent intellectual property rights. Using 20-digit encrypted code as the power purchase medium and supplemented by the computer management automation software and hardware technology for electricity bill collection, it has various functions such as energy metering, unit price management, load control, and electricity consumption information collection. Electricity management system. An intelligent prepaid electric energy meter that realizes the commercialization of electric energy. It is the world's leading prepaid energy meter based on virtual media. At present, more than half of the countries in the world use and install code-type electric energy meters. The meter is compatible with the STS open standard protocol and can seamlessly connect with the STS standard electricity sales system. It is the most ideal, safe and reliable choice for new-generation residential electricity management. The meter is installed in the indoor or outdoor meter box for use.

Functions and Features

- Electric energy meter: The keyboard meter can accurately measure active power, total active power = forward active power + I reverse active power 1, the range is 000000.00~999999.99kwh, and the power display format is 6+2.
- Electric energy meter: test forward active power, reverse active power, voltage, current, and instantaneous power.
- Electric energy meter: There is 64K non-volatile EEPROM, which can record the total power, remaining power, events, and recharge records.
- Electric energy meter: with photoelectric communication port, in line with IEC62056--21 standard. Users can read and set the parameters of the meter through PC software. Reading content: readout mode (total power, remaining power, voltage, live wire current, neutral wire current, meter number), event record, recharge record (token. recharge amount) Programming content: meter number, SGC, overdraft limit, maximum recharge Upper limit balance alarm value, etc.
- Electric energy meter: LED indication Pulse light: red pulse light, the pulse light will pulse when the electricity is discharged. Alarm light: yellow alarm light, when the meter detects the occurrence of electricity stealing events such as opening the meter cover, opening the end cover, reverse, bypass, missing zero line, magnetic detection, etc., the yellow alarm light flashes, and the liquid crystal displays the corresponding electricity stealing symbol and PERIKSA balance indicator light: When the remaining power in the meter is greater than or equal to the alarm threshold, the indicator light turns green; if the remaining power in the meter is less than the alarm threshold, the indicator turns red and flashes, and the buzzer turns on. The buzzer alarm can be turned off by pressing any key on the keyboard. During the set time, the buzzer will not automatically turn on. If there is no recharge within this time period, the buzzer will start to alarm again. Alarm light: yellow alarm light, when the meter detects the occurrence of electricity stealing events such as opening the meter cover, opening the end cover, reverse, bypass, missing zero line, magnetic detection, etc., the yellow alarm light flashes, and the liquid crystal displays the corresponding electricity stealing symbol and PERIKSA balance indicator light: When the remaining power in the meter is greater than or equal to the alarm threshold, the indicator light turns green; if the remaining power in the meter is less than the alarm threshold, the indicator turns red and flashes, and the buzzer turns on. The buzzer alarm can be turned off by any key on the keyboard. The buzzer will not be automatically turned on within the set time period. If the recharge is not performed within this time period, the buzzer will start to alarm again. The balance alarm value and buzzer off time can be queried through keyboard settings and short codes, enter 456xx, set the balance alarm value to xxkwh, enter 123xxx, and set the buzzer off time to xxxFll1in. The minimum balance alarm value can be set to 5kwtl, if the set value is less than 5kwh, the meter will be automatically corrected to 5kwh.
- Electric energy meter: Anti-electricity theft function, when the electric meter detects that there is an electricity theft event, the LCD will display PERJKSA and the electricity theft symbol, and deal with it accordingly. If PERIKSA or symbol is displayed, the meter cannot accept any type of token, including recharge and clear event codes, until the corresponding event is resolved.
- Electric energy meter: event record, the electric meter can detect and record overvoltage, undervoltage, reverse, open meter cover, open end cover, magnetic detection, bypass, reset, power failure, programming, overload and other events, and deal with it accordingly . Overvoltage and undervoltage thresholds and event detection delay time (same entry and exit time) can be set by PC software.
- Electric energy meter: prepaid function, after the user goes to the electricity sales department of the electric power bureau to purchase electricity, they can obtain a recharge with a 20-digit code string. The user correctly enters the 20-digit TOKEN~5 through the keyboard on the watch, and the purchased power is successfully charged.

DDSY5333、DTSY5333 series

Coded prepaid panel front mount electric energy meter

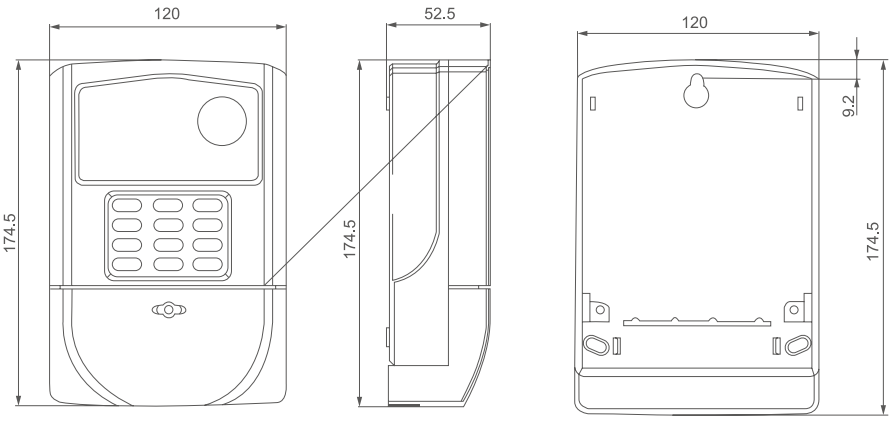
Functions and Features

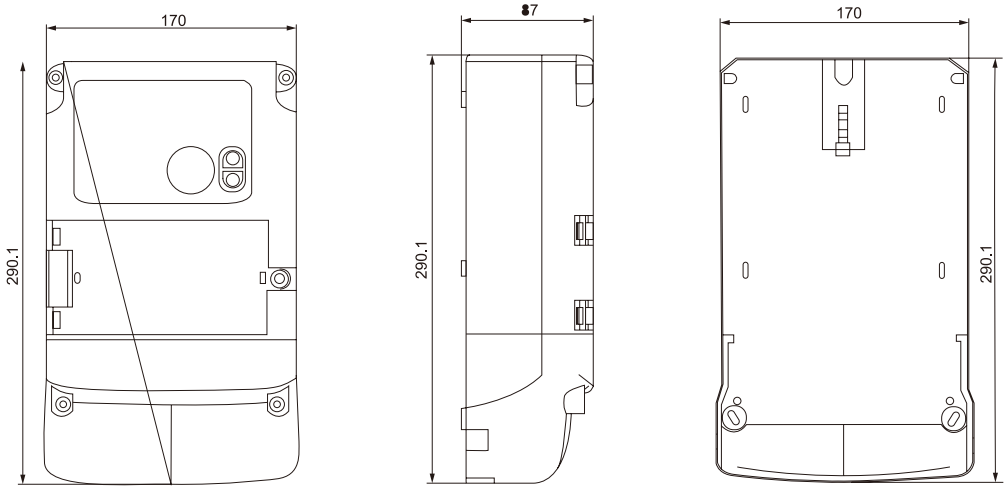
- Electric energy meter: general management code: This function is mainly provided by STS to test the performance of electric energy meters. Query the parameter information of the electric meter. This type of management TOKEN is not encrypted with STS, and can be operated on any prepaid meter that follows the STS protocol. The main function items are: relay test, LCD screen test, display remaining power, display key version number, display rate index, display maximum power, display meter status, display total power, display meter version number. Special management code: This type of management token is encrypted by STS and contains time and corresponding management information. You can only operate on tables with the same key. The main function items are: setting the maximum power, clearing the remaining power, modifying the key, and clearing the event status. If the token is refused to display GAGAL one by one and the corresponding identification number: GAGAL - 1, token parsing error; GAGAL - 2, recharge exceeding limit; GAGAL - 3 token type error; GAGAL - 4 in the state of stealing electricity Token rejected; GAGAL - 5 test communication light nods, no success. GAGAL - 6 can not be recharged when the cover or button cover is opened.

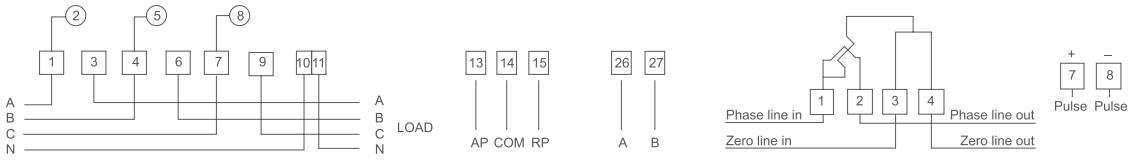
The main technical parameters

Model	Precision	Rated voltage	Rated current	Starting current	Insulation properties
DDSY5333 Series	Level 1	220V	10(40),5(60), 20(80)	0.04%	The power frequency AC voltage 2kv lasted for 1 minute. Impulse voltage 6kv
DTSY5333 Series	Level 1	3x230/400V	5A/CT,10(40),5(60).20(80), 10(100),30(100)	0.04%	The power frequency AC voltage 2kv lasted for 1 minute. Impulse voltage 6kv

Outline and installation dimensions and Wiring diagram







Description

The power meter is designed for the power monitoring needs of power systems, industrial and mining enterprises, public facilities, and smart buildings. It can measure all common power parameters, including current, voltage, frequency, power factor, active power, reactive power, active energy, reactive energy, etc. Remote transmission of data. It can also be equipped with multiple functions such as analog output, harmonic content analysis, multi-rate energy statistics, event recording, etc. The products are currently widely used in energy management systems, substation automation, distribution network automation, residential power monitoring, industrial automation, Smart buildings, smart switchboards and switch cabinets.

Functions and Features

- Display magnification, communication address, baud rate, etc. can be set through the buttons on the panel, which is very flexible and convenient to use.
- 0~20mA or 4~20mA analog output.
- Alarm output to monitor the upper and lower limits of the measured parameters.
- RS-485 digital interface, using standard MODBUS-RTU protocol.
- Switch quantity input, can monitor the switch quantity status in the system.
- Digital zero calibration and digital calibration, high precision and high cost performance.

Technical indicators

Accuracy class			Current and voltage are 0.5 or 0.2, active energy is 0.5, and reactive energy is 1
Show			LED digital display or Chinese LCD liquid crystal display
Input measurement	The internet		Single-phase, three-phase three-wire 3P3L, three-phase four-wire 3P4L
	Voltage	Rated value	AC220V, AC400V/AC100V (The range can be extended through PT)
		Overload	Continuous: 1.2 times Instantaneous: 2 times the voltage (10 seconds)
		Power consumption	<1VA (per phase)
		Impedance	>300kΩ
	Current	Rated value	AC1A/AC5A (the range can be extended by CT, please specify when you subscribe)
		Overload	Continuous: 1.2 times Instantaneous: 10 times the current (5 seconds)
		Power consumpt	<0.4VA (per phase)
		Ionimpedance	<20MΩ
	Frequency		50/60Hz±10%
	Electrical energy		Single-phase, four-quadrant active and reactive energy metering
Power supply	The scope of work		AC220V、AC/DC 80-265V、AC380V、DC24V、DC48V
	Power consumption		≤ 5VA
Output module	Pulse output		2-way energy pulse output, optocoupler relay, constant:5000imp/Kwh(Kvarh)
	Switch input		2-way or 4-way switch input
	Switch output		2-way or 4-way switch output
	Analog output		1-4 way
	Communication Interface		Rs485 interface MODBUS-RTU protocol, baud rate 1200, 2400, 4800, 9600 optional
Working conditions	Temperature		Working:-10~+55℃, Storage:-25~+70℃
	Humidity		Relative humidity≤93%RH
	Altitud		Altitude≤2500m
Lsolation withstand voltage			Input and power>2kv, input and output>1kv, power box output>2kv
Insulation			≥ 100MΩ

Multi-function harmonic multi-rate table

Product description

- Substitute a variety of display instruments, so that one meter can be used for multiple purposes.
- Using high-performance 32-bit processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Using large-screen LCD liquid crystal display, fashionable and generous.
- A variety of optional functions, convenient and practical.
- Rated current: AC5A AC1A.
- Rated voltage: AC380V AC380/220V AC100v AC100/57.7V.

Function selection table

Function \ Model	Harmonic table	
	BL194E-9HY	BL194E-2HY
Display method	LCD liquid crystal display	
Three-phase current harmonic content	•	•
Three-phase voltage total harmonic content	•	•
2-31 current harmonic content	•	•
2-31th voltage harmonic content	•	•
Multi-rate metering (spike, peak, flat, valley) Four rates, 8 time periods, 2 time zones (F)	○	○
Three-phase current (demand)	•	•
Three-phase voltage (demand)	•	•
Three-phase line voltage	•	•
Three-phase active power (demand)	•	•
Three-phase reactive power (demand)	•	•
Positive and negative active energy	•	•
Forward and reverse reactive energy	•	•
Three-phase frequency	•	•
Three-phase power factor	•	•
Three-phase apparent power	•	•
Communication	Rs485 communication/MODBUS-RTU protocol	
Power pulse output	Two-way (active, reactive)	
Open in DI / open out DO(K)	2DI2DO or 4DI4DO (optional)	
Analog 4-20mA output (M)	1-4 road (optional)	
Event Record (T)	Optional	
Panel size	96×96	120×120
Hole size	91×91	111×111
Depth dimensions	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)	

Note: "●" means standard configuration; "o" means optional.

Single-phase LCD multi-function meter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Integrated LCD screen, highlighting high-end.
- A variety of optional functions can be selected to meet the use of different places.
- Rated current: AC5A AC1A.
- Rated voltage: AC220V.

Function selection table

Function \ Model	Single-phase LCD multi-function meter		
	BL194E-9S1Y	BL194E-3S1Y	BL194E-AS1Y
Single phase current	•	•	•
Single-phase voltage	•	•	•
Single-phase active power	•	•	•
Single-phase reactive power	•	•	•
Single-phase apparent power	•	•	•
Single-phase power factor	•	•	•
Single-phase frequency	•	•	•
Positive and negative active energy	•	•	•
Forward and reverse reactive energy	•	•	•
Communication	RS485/MODBUS-RTU protocol (default)		
Pulse	Active all the way		
Display mode	LCD liquid crystal display		
Open in/out	2DI/2DO(optional)		
Analog	1 channel (optional)		
Panel size	96×96	80×80	72×72
Hole size	91×91	76×76	67×67
Depth Dimensions	85mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)		

Note: "•" means standard configuration; "o" means optional.

Three-phase digital multi-function meter

Product description

- Using high-performance 32-bit processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Integrated LED digital screen, highlighting high-end.
- A variety of optional functions can be selected to meet the needs of different occasions.
- Rated current: AC5A AC1A.
- Rated voltage: AC380/220V AC100V AC100/57.7V.

Function selection table

Function \ Model	BL194E-2S4	BL194E-9S4	BL194E-3S4	BL194E-AS4
Three-phase current	•	•	•	•
Three phase voltage	•	•	•	•
Three-phase line voltage	•	•	•	•
Three-phase active power	•	•	•	•
Total active power	•	•	•	•
Three-phase reactive power	•	•	•	•
Total reactive power	•	•	•	•
Three-phase apparent power	•	•	•	•
Total apparent power	•	•	•	•
Three-phase power factor	•	•	•	•
Three-phase frequency	•	•	•	•
Positive and negative active energy	•	•	•	•
Forward and reverse reactive energy	•	•	•	•
Pulse	Two-way (active, reactive)			
Display mode	Integrated LED digital display			
Communication	Standard 1-way RS485 communication interface (optional 2-way RS485 communication interface)			
Open in/out (K)	2DI2DO or 4DI4DO (optional)		2DI/2DO (optional)	
Analog (M)	1-4 channels (optional)		1 channel (optional)	
Panel size	120×120	96×96	80×80	72×72
Hole size	111×111	91×91	76×76	67×67
Depth Dimensions	85mm	85mm、63mm	85mm、63mm	85mm、63mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)			

Note: "•" means standard; "o" means optional.

Note: 63mm depth, no optional function, AC220V functional power supply.

Three-phase LCD multi-function meter

Product description

- Using high-performance 32-bit processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Chinese LCD screen, highlighting high-end.
- A variety of optional functions can be selected to meet the needs of different occasions.
- Rated current: AC5A AC1A.
- Rated voltage: AC380/220V AC100V AC100/57.7V.

Function selection table

Function \ Model	BL194E-2SY	BL194E-9SY	BL194E-3SY	BL194E-ASY
Three-phase current	•	•	•	•
Three phase voltage	•	•	•	•
Three-phase line voltage	•	•	•	•
Three-phase active power	•	•	•	•
Total active power	•	•	•	•
Three-phase reactive power	•	•	•	•
Total reactive power	•	•	•	•
Three-phase apparent power	•	•	•	•
Total apparent power	•	•	•	•
Three-phase power factor	•	•	•	•
Three-phase frequency	•	•	•	•
Positive and negative active energy	•	•	•	•
Forward and reverse reactive energy	•	•	•	•
Pulse	Two way			
Display mode	Chinese LCD liquid crystal display			
Communication	Standard 1-way RS485 communication interface (optional 2-way RS485 communication interface			
Open in/out (K)	2DI2DO or 4DI4DO (optional)		2DI/2DO (optional)	
Analog (M)	1-4 channels (optional)		1 channel (optional)	
Panel size	120×120	96×96	80×80	72×72
Hole size	111×111	91×91	76×76	67×67
Depth Dimensions	85mm	85mm、63mm	85mm、63mm	85mm、63mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)			

Note: "●" means standard; "o" means optional.

Note: 63mm depth, no optional function, AC220V functional power supply.

Digital single-phase ammeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, CT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC5A AC1A.

Function selection table

Function \ Model	BL194I-2K1	BL194I-9K1	BL194I-3K1	BL194I-AK1	BL194I-DK1
Single-phase current	•	•	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Transmission (M)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Open (K)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)	1 channel (optional)
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)	1 channel (optional)
Panel size	120×120	96×96	80×80	72×72	48×48
Hole size	111×111	91×91	76×76	67×67	45×45
Depth dimensions	85mm	85mm、63mm	85mm、63mm	85mm、63mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)				

Note: "•" means standard;
Note: 63mm depth, no optional function, AC220V functional power supply.

LCD single-phase ammeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, CT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC5A AC1A.

Function selection table

Function \ Model	NKL194I-9K1Y 1 channel (optional)	NKL194I-3K1Y	NKL194I-AK1Y
Single-phase current	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Transmission (M)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Open (K)	2 channel (optional)	2 channel (optional)	2 channel (optional)
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)
Panel size	96×96	80×80	72×72
Hole size	91×91	76×76	67×67
Depth dimensions	85mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)		

Note: "•" means standard;

Digital Single Phase Voltmeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, PT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC220.

Function selection table

Function \ Model	BL194U-2K1	BL194U-9K1	BL194U-3K1	BL194U-AK1	BL194U-DK1
Single-phase current	•	•	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Transmission (M)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Open (K)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)	1 channel (optional)
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)	1 channel (optional)
Panel size	120×120	96×96	80×80	72×72	48×48
Hole size	111×111	91×91	76×76	67×67	45×45
Depth dimensions	85mm	85mm、63mm	85mm、63mm	85mm、63mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)				

Note: "•" means standard;
Note: 63mm depth, no optional function, AC220V functional power supply.

Liquid Crystal Single Phase Voltmeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, PT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC220.

Function selection table

Function \ Model	BL194U-9K1Y	BL194U-3K1Y	BL194U-AK1Y
Single-phase current	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Transmission (M)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Open (K)	2 channel (optional)	2 channel (optional)	2 channel (optional)
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)
Panel size	96×96	80×80	72×72
Hole size	91×91	76×76	67×67
Depth dimensions	85mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)		

Note: "•" means standard;

Digital three-phase ammeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, CT can be set arbitrarily.
- Adopt LED digital display.

  Rated current: AC5A AC1A.

Function selection table

Function \ Model	BL194I-2K4	BL194I-9K4	BL194I-3K4	BL194I-AK4	BL194I-DK4
Single-phase current	•	•	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)	without
Transmission (M)	1-3 channel (optional)	1-3 channel (optional)	1 channel (optional)	1 channel (optional)	without
Open (K)	4 channel (optional)	4 channel (optional)	2 channel (optional)	2 channel (optional)	without
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)	without
Panel size	120×120	96×96	80×80	72×72	48×48
Hole size	111×111	91×91	76×76	67×67	45×45
Depth dimensions	85mm	85mm、63mm	85mm、63mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)				

Note: "•" means standard;

Note: 63mm depth, no optional function, AC220V functional power supply.

LCD three-phase ammeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, CT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC5A AC1A.

Function selection table

Function \ Model	BL194I-2K4Y	BL194I-9K4Y	BL194I-3K4Y	BL194I-AK4Y
Single-phase current	•	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Transmission (M)	1-3 channel (optional)	1-3 channel (optional)	1 channel (optional)	1 channel (optional)
Open (K)	4 channel (optional)	4 channel (optional)	2 channel (optional)	2 channel (optional)
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)
Panel size	120×120	96×96	80×80	72×72
Hole size	111×111	91×91	76×76	67×67
Depth dimensions	85mm	85mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)			

Note: "•" means standard;

Digital three-phase voltmeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, PT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC400 AC100.

Function selection table

Function \ Model	BL194U-2K4	BL194U-9K4	BL194U-3K4	BL194U-AK4	BL194U-DK4
Single-phase current	•	•	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)	without
Transmission (M)	1-3 channel (optional)	1-3 channel (optional)	1 channel (optional)	1 channel (optional)	without
Open (K)	4 channel (optional)	4 channel (optional)	2 channel (optional)	2 channel (optional)	without
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)	without
Panel size	120×120	96×96	80×80	72×72	48×48
Hole size	111×111	91×91	76×76	67×67	45×45
Depth dimensions	85mm	85mm、63mm	85mm、63mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)				

Note: "• " means standard;
Note: 63mm depth, no optional function, AC220V functional power supply.

LCD three-phase voltmeter

Product description

- Using high-performance processing chip, with independent measurement chip, high measurement accuracy and fast running speed.
- Measure single-phase current, PT can be set arbitrarily.
- Adopt LED digital display.
- Rated current: AC400 AC100.

Function selection table

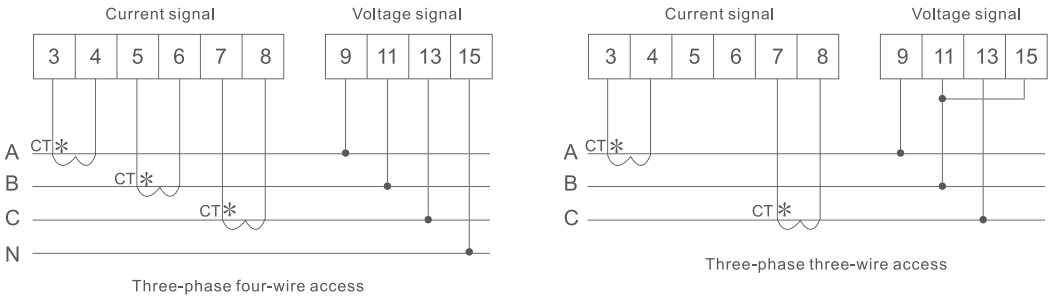
Function \ Model	BL194U-2K4Y	BL194U-9K4Y	BL194U-3K4Y	BL194U-AK4Y
Single-phase current	•	•	•	•
Communication(C)	1 channel (optional)	1 channel (optional)	1 channel (optional)	1 channel (optional)
Transmission (M)	1-3 channel (optional)	1-3 channel (optional)	1 channel (optional)	1 channel (optional)
Open (K)	4 channel (optional)	4 channel (optional)	2 channel (optional)	2 channel (optional)
Open (alarm J)	2 channel (optional)	2 channel (optional)	2 channel (optional)	2 channel (optional)
Panel size	120×120	96×96	80×80	72×72
Hole size	111×111	91×91	76×76	67×67
Depth dimensions	85mm	85mm	85mm	85mm
Working power	Standard AC220V Optional power supply AC380V DC24V DC48V AC/DC 80-265V (If it has transmission output function, only AC/DC 80-265V power supply can be used)			

Note: "• " means standard;

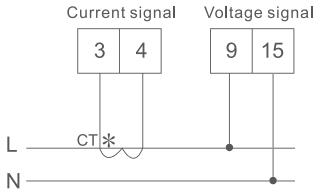
Wiring Schematic

- Signal input interface

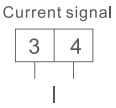
Three-phase multifunction meter



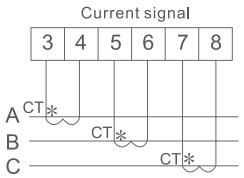
Single-phase multifunction meter



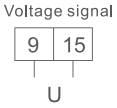
Single Phase Ammeter



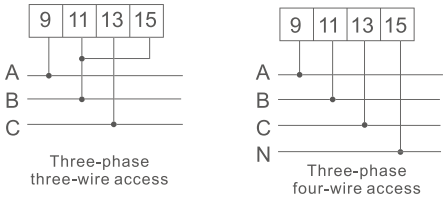
Three-phase ammeter



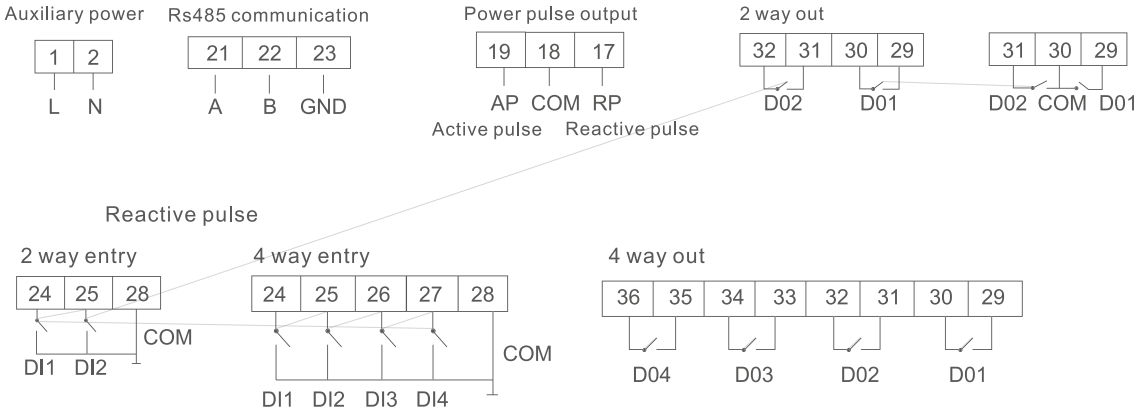
Single Phase Voltmeter/
Frequency Meter



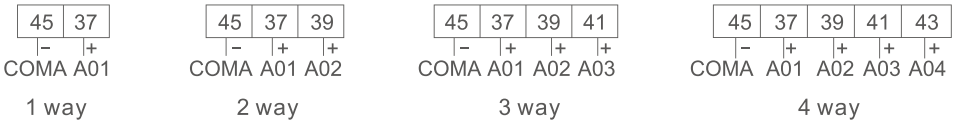
Three Phase Voltmeter



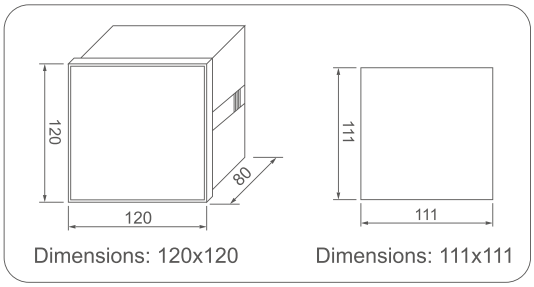
- Other interfaces



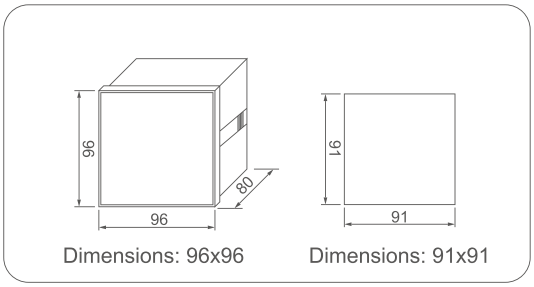
Analog transmission output



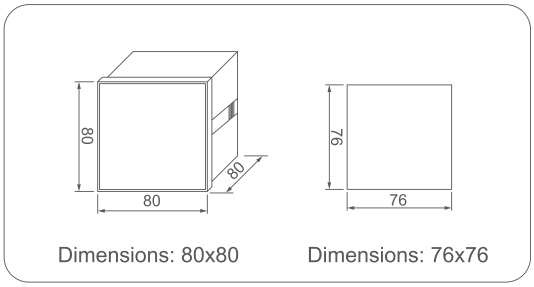
Outline and hole size



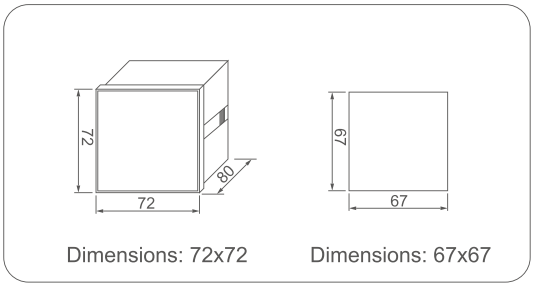
Dimensions: 120x120 Dimensions: 111x111



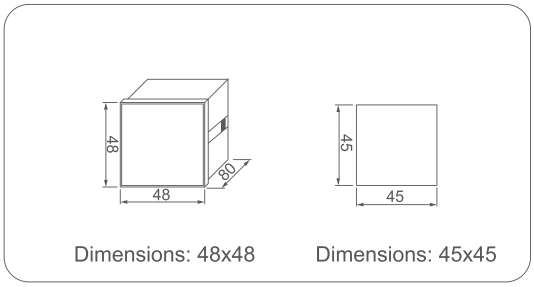
Dimensions: 96x96 Dimensions: 91x91



Dimensions: 80x80 Dimensions: 76x76



Dimensions: 72x72 Dimensions: 67x67



Dimensions: 48x48 Dimensions: 45x45

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YIFA HOLDING GROUP CO., LTD.

Add:2nd Floor,Building 7,Headquarter Economic Park,Yueqing,Zhejiang.
Http://www.yifachina.com E-mail:zby@yifachina.com
Tel: 0577-62608111 / 62618888 +8615990720629