

Digital Panel Meter



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RSCN ELECTRIC

Single Phase Current Meter/Voltage Meter

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RSA310S
LED Display
Single Phase Current Meter



RSA310Y
LCD Display
Single Phase Current Meter



RSV310S
LED Display
Single Phase Voltage Meter



RSV310Y
LCD Display
Single Phase Voltage Meter

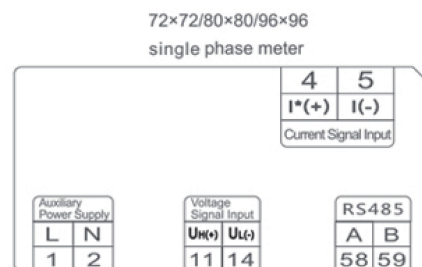
Description

The panel type digital display single-phase current and voltage meter is designed to meet the intelligent monitoring and energy measurement requirements of power systems, industrial and mining enterprises, public facilities, smart buildings, and other occasions. It can accurately measure all commonly used electrical parameters in the power grid, such as single-phase AC voltage, single-phase AC current, and also comes with 485 communication function.

Feature

- Dedicated Single-Phase Measurement – Accurately measures AC current (RSA310) or voltage (RSV310)
- Four Panel Sizes – 120×120mm, 96×96mm, 80×80mm, and 72×72mm for flexible installation
- Dual Display Options – Available in easy-to-read LED or LCD screen for real-time data visualization
- Easy Installation – Includes specified cutout dimensions (106×106 mm, 89×89 mm, 76×76 mm, 67×67 mm)
- Compact Design – Only 38mm deep for space-efficient cabinet integration

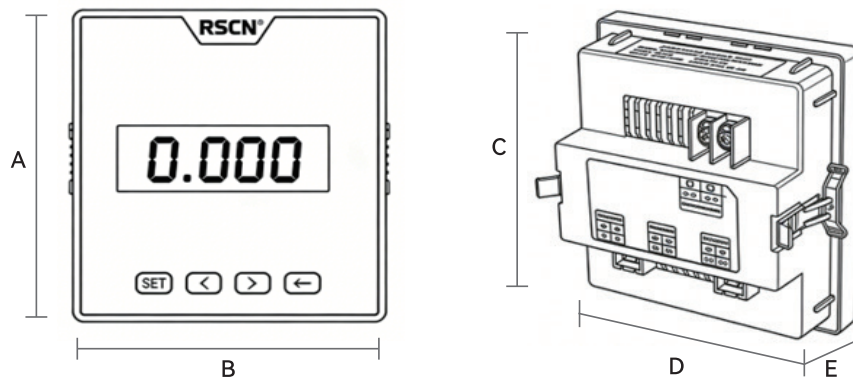
Terminal Diagram



Technical Parameters

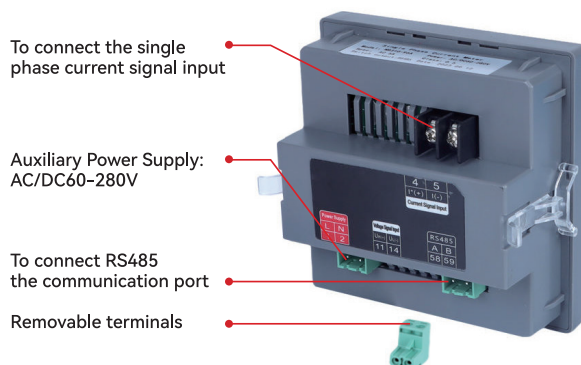
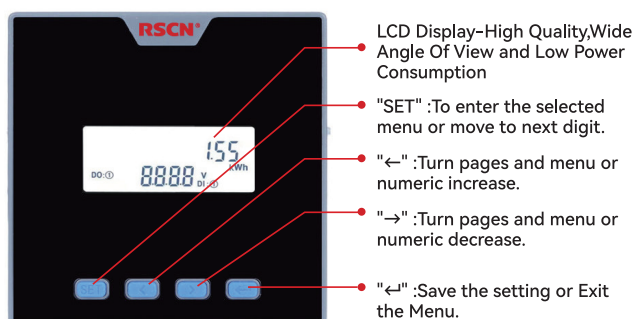
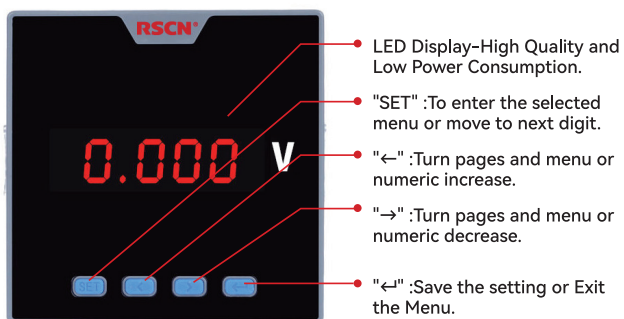
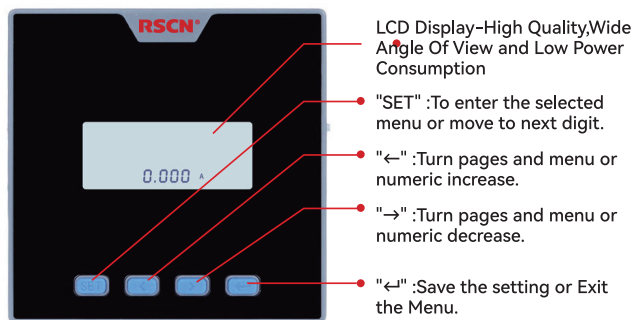
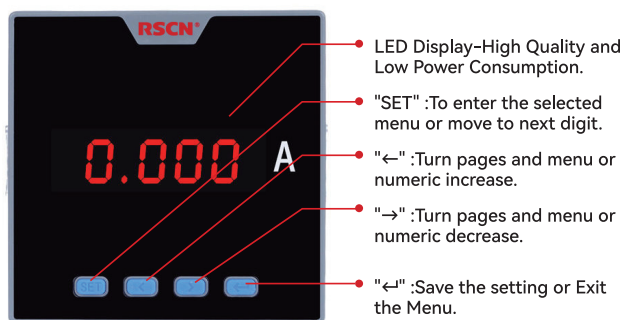
Item			Parameter
Signal input	Wiring		Single-phase
	Meter	Measurement range	AC: 100V, 380V, 600V
		Over load	Continuous: 1.2 times Instantaneous: 2 times
		Power consumption	<1VA
	Meter	Measurement range	AC: 1A, 5A
		Over load	Continuous: 1.2 times Instantaneous: 2 times
		Power consumption	<1VA
	Frequency		(45 ~ 65)Hz
Power supply			AC/DC 60 ~ 280V, ≤5VA
Communication			RS485 communication interface, physical layer isolation. Meet the international standard of MODBUS-RTU agreement Communication speed 1200~38400 Test type N81,E81,081
Measurement class			Power: 0.5, Frequency: ±0.2Hz
Display mode			LED display, LCD display
Environment			Working temperature: -10-+45℃ Storage temperature:-25-+50℃ Relative humidity: <85%RH
Safety			Isolation:resistance of Signal input, power source and output terminal to cover>100MQ Withstand Voltage:Signal Input/power supply, Power Supply/Signal output:AC 2kV, Signal Input/Signal Output:1kV

Instrument Dimensions



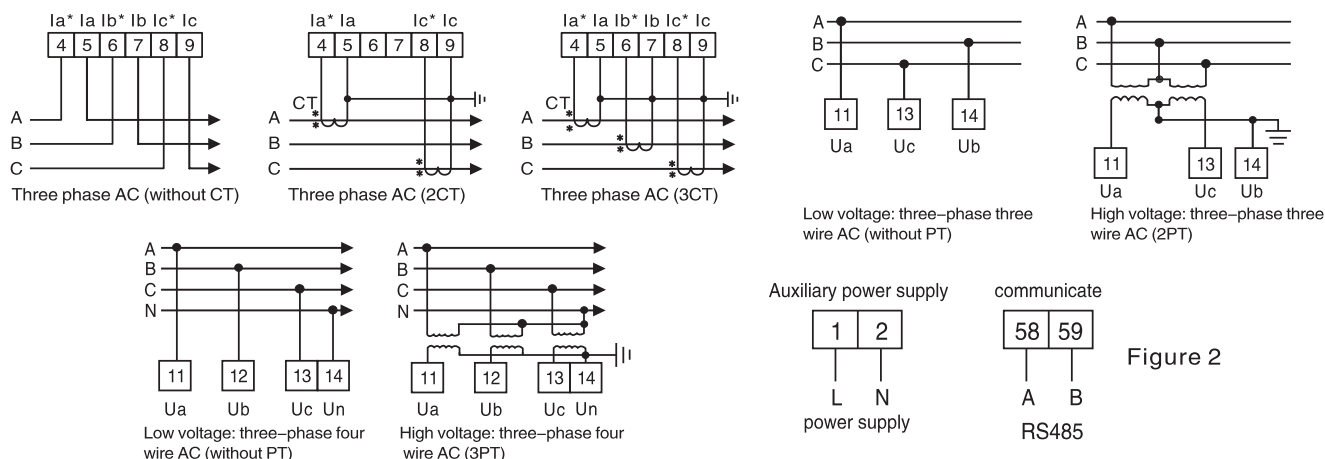
Overall Dimensions(AxB) Unit(mm)	Screen Installation Dimensions (Cx D)	Depth (E)(mm)
120x120	106x106	38
96x96	89x89	38
80x80	76x76	38
72x72	67x67	38

Panel Introduce



Wiring Methods

Figure 1





RSA320S
LED Display
Three Phase Current Meter



RSA320Y
LCD Display
Three Phase Current Meter



RSV320S
LED Display
Three Phase Voltage Meter



RSV320Y
LCD Display
Three Phase Voltage Meter

Description

The panel type digital display three-phase current and voltage meter is designed to meet the intelligent monitoring and energy measurement requirements of power systems, industrial and mining enterprises, public facilities, smart buildings, and other occasions. It can accurately measure all commonly used electrical parameters in the power grid, such as three-phase AC voltage, three-phase AC current, and also comes with 485 communication function.

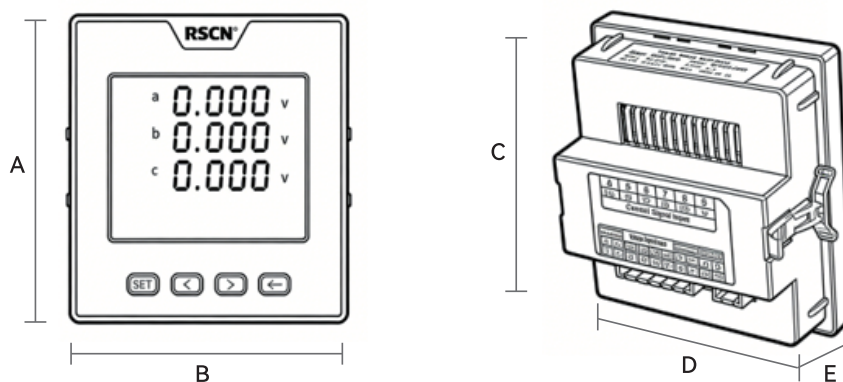
Feature

- Dedicated Three-Phase Measurement – Accurately measures AC current (RSA320) or voltage (RSV320)
- Four Panel Sizes – 120×120mm, 96×96mm, 80×80mm, and 72×72mm for flexible installation
- Dual Display Options – Available in easy-to-read LED or LCD screen for real-time data visualization
- Easy Installation – Includes specified cutout dimensions (106×106 mm, 89×89 mm, 76×76 mm, 67×67 mm)
- Compact Design – Only 38mm deep for space-efficient cabinet integration

Technical Parameters

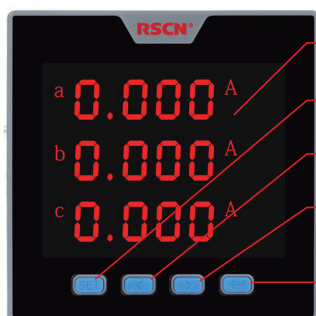
Item			Parameters
Signal input	Connection		Three phase three wire/three phase four wire
	Voltage Meter	range	100V, 380V
		Over load	Continuous: 1.2x, instantaneous: 2x/1S
		consumption	< 1VA (per phase)
	Current Meter	range	AC(10mA~5A)
		Over load	Continuous: 1.2x, instantaneous: 10x/5S
		consumption	<1VA
	Frequency		(45 ~ 65)Hz
Power supply			AC/DC 60 ~ 280V, ≤5VA
Communication			RS485 communication interface, physical layer isolation. MODBUS-RTU protocol that meets international standards Communication speed 1200~38400 Verification methods N81, E81, 081
Accuracy			Electric parameters: 0.5 class, frequency: ±0.2Hz
Display method			LED digital tube display, LCD liquid crystal display
Environment			Working temperature: -10~+45℃ Storage temperature:-25~+50℃ Relative humidity: <85%RH
Security			Insulation: input, power supply, and output terminals have a resistance to the shell greater than 100M Ω Withstand voltage: input/power: 2kV, power/output: 2kV,Input/output: 1kV

Instrument Dimensions

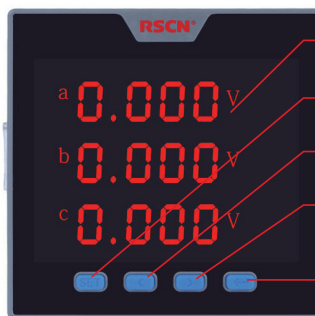


Overall Dimensions(AxB) Unit(mm)	Screen Installation Dimensions (Cx D)	Depth (E)(mm)
120x120	106x106	38
96x96	89x89	38
80x80	76x76	38
72x72	67x67	38

Panel Introduce



- LED Display-High Quality , Low Power Consumption.
- "SET" :To enter the selected menu or move to next digit.
- "←" :Turn pages and menu or numeric increase.
- "→" :Turn pages and menu or numeric decrease.
- "↵" :Save the setting or Exit the Menu.



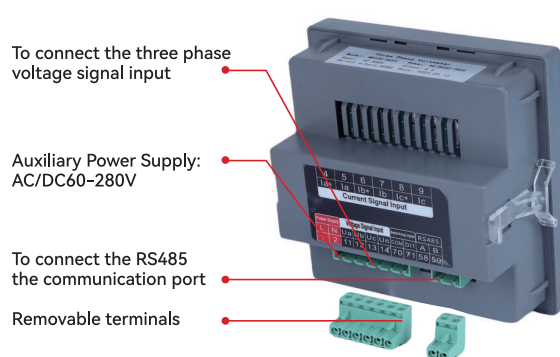
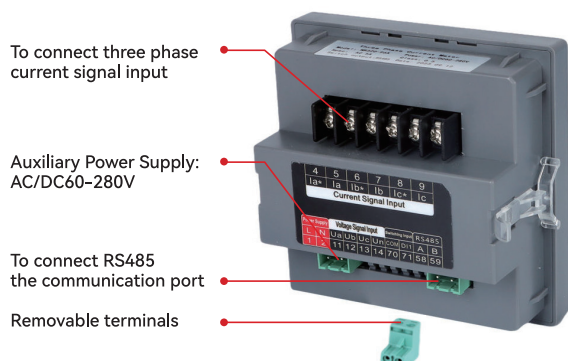
- LED Display-High Quality , Low Power Consumption.
- "SET" :To enter the selected menu or move to next digit.
- "←" :Turn pages and menu or numeric increase.
- "→" :Turn pages and menu or numeric decrease.
- "↵" :Save the setting or Exit the Menu.



- LCD Display-High Quality,Wide Angle Of View and Low Power Consumption
- "SET" :To enter the selected menu or move to next digit.
- "←" :Turn pages and menu or numeric increase.
- "→" :Turn pages and menu or numeric decrease.
- "↵" :Save the setting or Exit the Menu.



- LCD Display-High Quality,Wide Angle Of View and Low Power Consumption
- "SET" :To enter the selected menu or move to next digit.
- "←" :Turn pages and menu or numeric increase.
- "→" :Turn pages and menu or numeric decrease.
- "↵" :Save the setting or Exit the Menu.



Wiring Methods

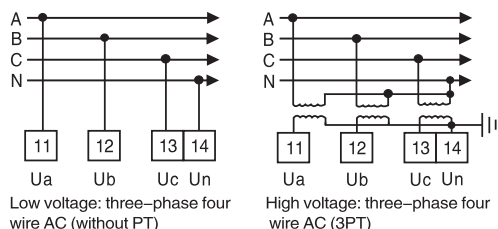
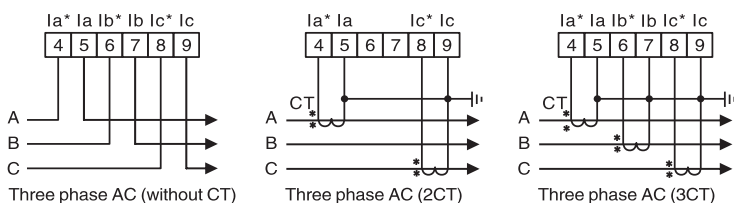


Figure 1

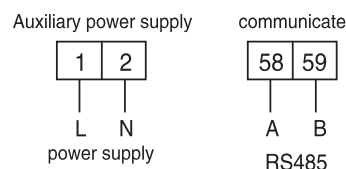
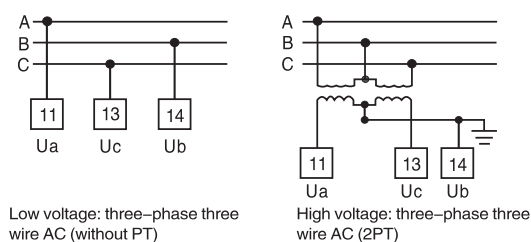


Figure 2



RS330S

LED Display
Multifunction Meter



RS330Y

LCD Display
Multifunction Meter

Description

The RS330 series three-phase multifunction meter is designed for the electric power intelligent monitoring and electric energy metering needs of electric power system, industrial and mining enterprises, public facilities, intelligent buildings and so on, high-precision measurement of all common power parameters in three-phase grid: three-phase voltage, three-phase current, active power, reactive power, apparent power, frequency, power factor, and with 485 communication functions.

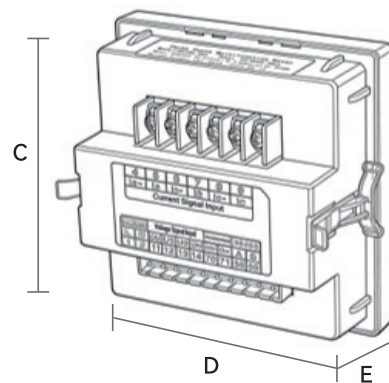
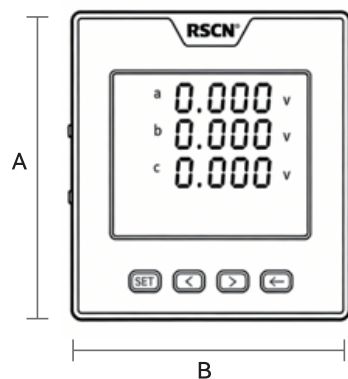
Feature

- Three Phase Monitoring – Measures voltage, current, power, energy, and other key electrical parameters
- Multi-Size Compatibility – 120×120mm, 96×96mm, 80×80mm, and 72×72mm for flexible installation
- Dual Display Options – Available in easy-to-read LED or LCD screen for real-time data visualization
- Switching I/O Capability – Supports input/output switching functions for control integration
- Compact Depth – Only 38mm deep, saving panel space

Technical Parameters

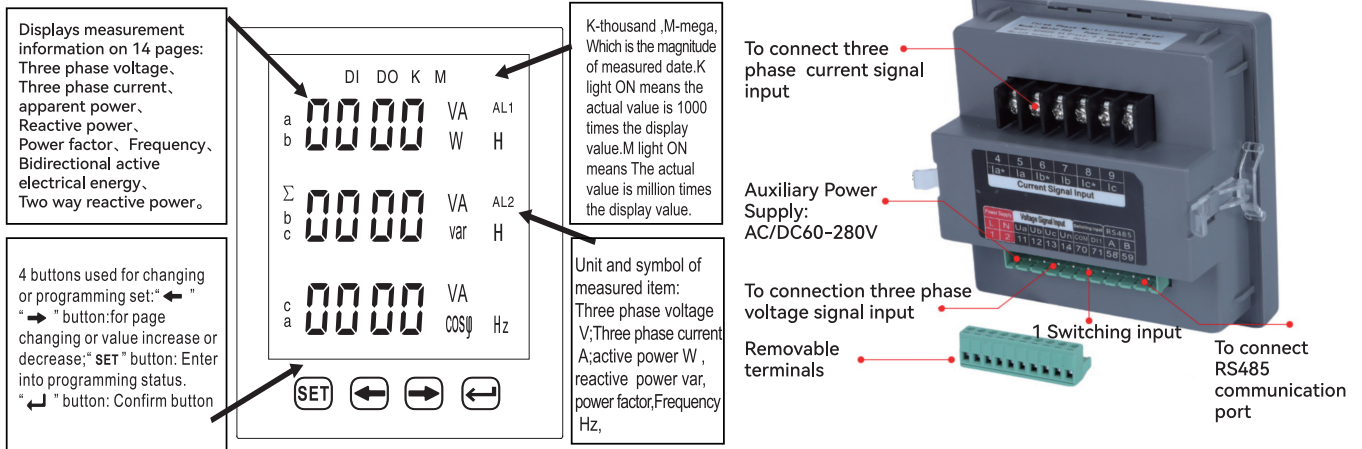
Item			Parameter
Signal input	Wiring		3 phase 4 lines/3 phase 3lines
	Voltage	Measurement range	AC(20~500)V
		Overload	Continuous: 1.2 multiple, instantaneous: 2 multiple/1s
		Power consumption	< 1VA (per phase)
	Current	Measurement range	AC(10mA~5A)
		Overload	Continuous: 1.2 multiple, instantaneous: 10 multiple/5s
		Power consumption	<0.4VA(per phase)
	Frequency		(45 ~ 65)Hz
Power supply			AC/DC 60 ~ 280V, ≤5VA
Communication			RS485 communication interface, physical layer isolation. Meet the international standard of MODBUS-RTU agreement Communication speed 1200~38400 Test type N81,E81,081
Switching Input/Output			Passive dry contact
Measurement class			Power: 0.5 Frequency: ±0. 2Hz Active power: 1. 0 Reactive power: 2. 0
Display mode			LED display, LCD display
Environment			Working temperature: -10~+45℃ Storage temperature:-25~+50℃ Relative humidity: <85%RH
Safety			Isolation:resistance of Signal input power source and output terminal to cover>100M Ω Withstand Voltage:Signal Input/power supply, Power Supply/Signal output:AC 2kV, Signal Input/Signal Output: 1kV

Instrument Dimensions

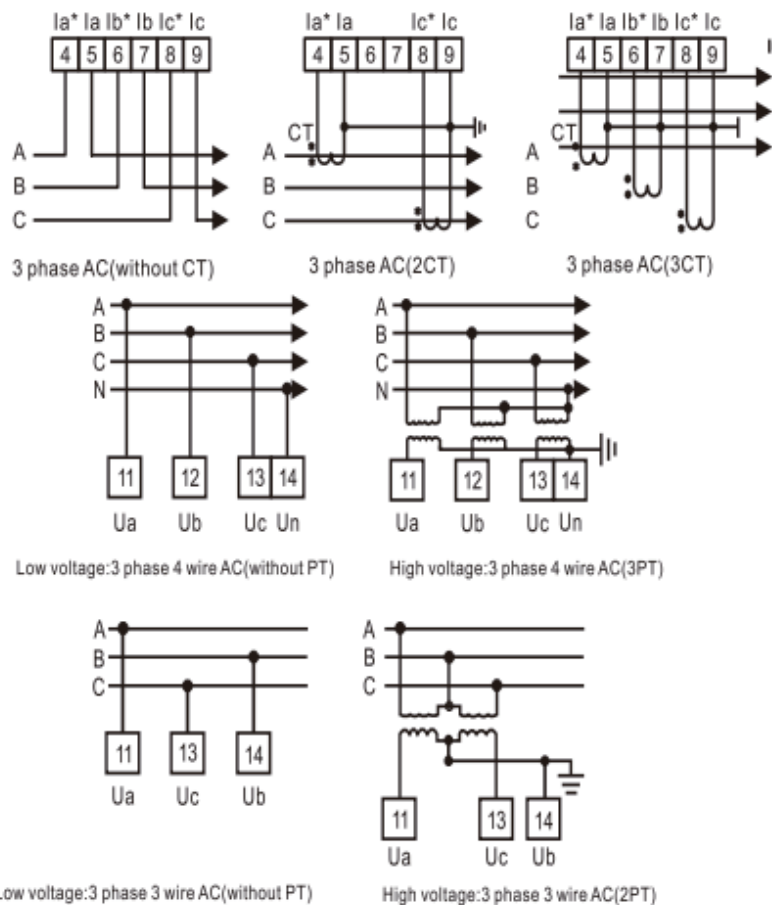


Overall Dimensions(AxB) Unit(mm)	Screen Installation Dimensions (Cx D)	Depth (E)(mm)
120x120	106x106	38
96x96	89x89	38
80x80	76x76	38
72x72	67x67	38

Panel Introduce



Wiring Methods



Note: The meter is provided with two kinds of wiring modes, please make sure the actual wiring is same to the set wiring in the meter.
The wiring diagram and technical parameter printed on the product shall be prevailed.



RS350Y

LCD Display

Three Phase LCD Harmonic Meter

Description

The Multi-function Harmonic Electric Power Meter is a precise and versatile three-phase power meter designed for advanced energy monitoring and harmonic analysis. It provides comprehensive electrical measurements, supports MODBUS communication, and features a user-friendly LCD interface—ideal for smart grid, industrial, and building automation applications.

Feature

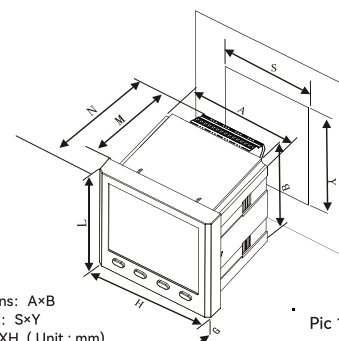
- Complete Electrical Measurement – Accurately measures voltage, current, power, energy, frequency, and power factor.
- Harmonic Analysis – Monitors total harmonic distortion (THD) and individual harmonics.
- Bidirectional Energy & Demand – Tracks forward/reverse active/reactive energy and records maximum power demand.
- MODBUS-RTU Communication – RS-485 interface enables easy integration with SCADA, PLC, and energy management systems.
- Flexible Configuration – Programmable wiring modes, CT/PT ratios, display settings, and alarm outputs.
- Pulse & Analog Outputs – Provides energy pulse outputs and optional 4–20 mA analog signals for external monitoring.

Technical Parameters

Performance		Parameters
Input Measurement Display	Network	three-phase three-wire, Three-phase four-wire
	Network	Rated Value
		AC25~500V
		Over load
		Continuous: 1.2 times the rated value Instantaneous: 10 times the rated value for 10 seconds
		Power Consumption
		< 0.4VA (per phase)
		Impedance
		>500kQ
		Accuracy
		RMS Measurement, Accuracy Class 0.2
	Current	Rated Value
		AC0-5A
		Over load
		Continuous:1.2 times the rated value Instantaneous: 10 times the rated value for 10 seconds
		Power Consumption
		< 0.4VA (per phase)
		Impedance
		>2mQ
		Accuracy
		RMS Measurement, Accuracy Class 0.2
	Frequency	45~65Hz
	Power	Apparent Power Measurement with Active Power Accuracy Class 0.5 and Reactive Power Accuracy Class 0.5
	Electric Energy	Four-Quadrant Measurement with Active Power Accuracy Class 0.5 and Reactive Power Accuracy Class 0.5
	Harmonic	Total Harmonic Content Measurement from 2nd to 31st Harmonics
Power Supply	Operating Range	AC/DC85~270V
	Power Consumption	≤5VA
Output	Digital Interface	RS - 485, MOD BUS - RTU
	Pulse Output	Energy Pulse Output with Pulse Constant of 5000 impulses per hour(mp/h)
Environment	Operating Environment	-10~55°C
	Storage Environment	-20~75°C
Satety	Dielectric Strength	>2kV for Input/Power Supply, >2kV for Input/Output, >1kV for Power Supply/Output
	Insulation	>50 Megohms (MQ) between Input, Output, Power Supply, and Case
Energy Measurement Capability		Active and Reactive Energy Measurement Range: 0 to

Instrument Dimensions

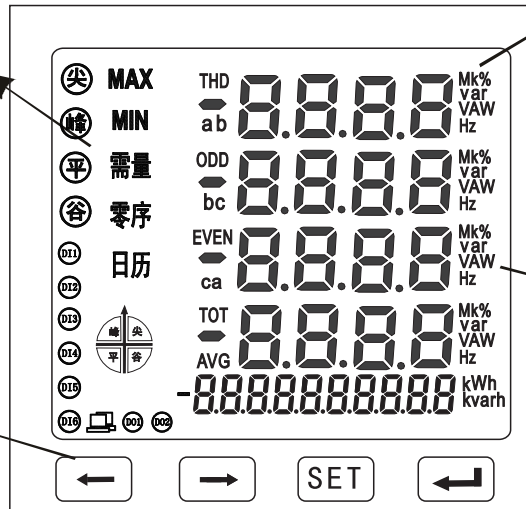
Overall Dimensions (L×H) Unit(mm)	Screen Installation - Matching Dimensions Unit(mm)	Cut - out Dimensions (S×Y) Unit(mm)	Total length (N) (mm)	Depth (M) (mm)
120×120	110×110	111×111	93	78
96×96	91×91	92×92	93	78
80×80	75×75	76×76	71	68
72×72	67×67	68×68	71	68



Panel Introduce

The 5-row liquid crystal display is divided into 8 pages to show measurement information: three-phase, phase voltage; three-phase line voltage, three-phase current; active power, reactive power, power factor; frequency, bi-directional active electric energy; bi-directional reactive electric energy.

Four keys are used for display switching or programming settings: "→" and "←" are the keys for switching page numbers or adding and subtracting values; "MENU" is the key for entering the programming state or going back to the previous level, serving as a function key; "OK" is the key for selection, confirmation or switching information on the same page.



"k" represents thousand and "M" represents million, indicating the magnitude of the measured data. For example, when the first row of the LCD displays 10.23 with both the "k" and "V" characters lit, it indicates $U_a=10.23\text{kV}$. If neither the "k" nor "M" characters are lit, the voltage value is $U_a=10.23\text{V}$.

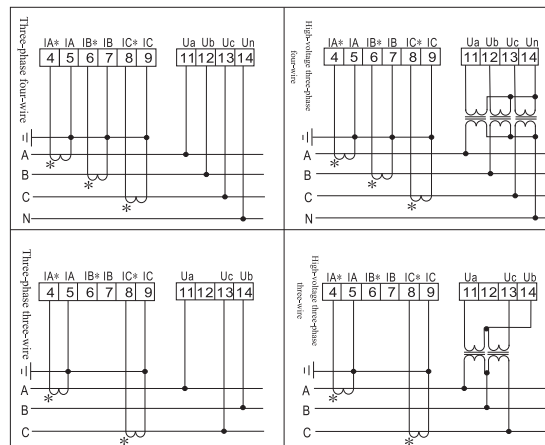
The units or identifiers for the measured items are: three-phase voltage (V); three-phase current (A); active power (W); reactive power (Var); power factor; frequency (Hz); output and input signals.

Numbering of Signal and Functional Terminals

The terminal blocks of this series adopt a unified numbering system, which is applicable to all products in this series. The details are shown in the following table.

Power Supply	1,2	AC220V,AC/DC80-270V
Current Signal	4,5,6,7,8,9	Terminals 4, 6, and 8 are the incoming terminals for three-phase current.
Voltage Signal	11,12,13,14	The three-phase voltage inputs are U_a , U_b , U_c , and U_n respectively.
Relay Output	15~22	There are 4 relay outputs.
Transmitting Output	30,31,32,33,34	There are 4 4 - 20 mA transmitting outputs, with terminal 30 being the common terminal.
Energy Pulse	47,48,49	Terminals 47 and 49 are the positive terminals of passive outputs and should be connected to the positive terminal of an external power supply.
RS485	58,59	A + and B - respectively.
Switch Input	70~74	There are 4 switch inputs, with terminal 70 being the common terminal.

Wiring Methods





RSCN®
Imagine the beauty of technology

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