

# Meter



**Shanghai JEGO Electric Co., Ltd**

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## Company Profile



# Meter

## Introduction

Digital power meters are electronic devices designed to measure and display electrical parameters such as voltage, current, frequency and more. They typically feature high precision, excellent readability and straightforward operation. Based on the different parameters to be measured and functional requirements, digital panel meters can be classified into various types, including voltmeters, ammeters, wattmeters and others. They are widely used in industrial automation, power monitoring, laboratory testing equipment, and all applications requiring accurate electrical measurement.

Digital panel meters can adopt various display technologies such as LCD and LED for their display modules, adapting to different working environments and user requirements.

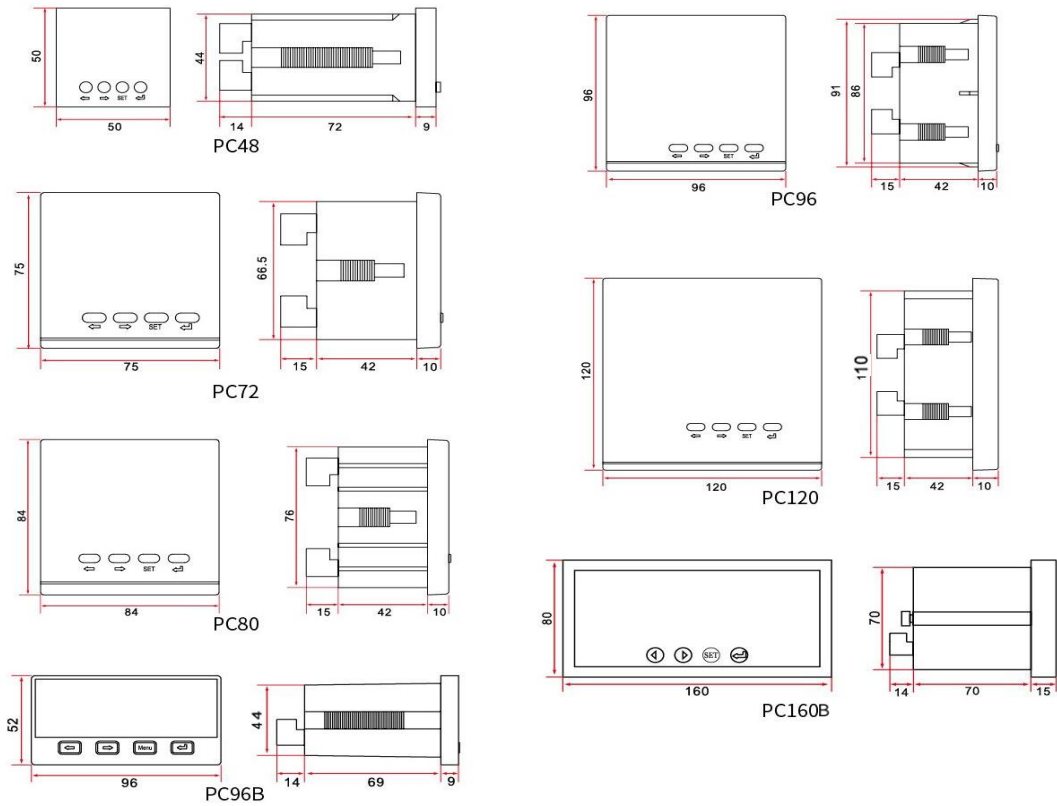
## Main Technical Parameters

Input	Voltage	AC 0~500V OR DC 0~500V
	Current	AC 1A, 5A
	Frequency	45~65Hz
Accuracy class	±0.5 %	
panel size	48×48, 72×72, 80×80, 96×48(96B), 96×96, 120×120, 160×80(160B)	
Type	Single phase, Three-phase	
Display mode	LED, LCD	
Display code	U: Voltage I: Current F: Frequency H: Power Factor P: Active Power	
	Q: Reactive Power R: Speed	
Power supply voltage	AC 220V, 50/60Hz (or: AC380V, AC/DC85~265V, DC24V, DC36V, DC48V)	
Optional features	RS485、Temperature Monitoring、 <b>Relay output, Switch input, Analog transmission output (See the table below)</b>	
Usage environment	Temperature	Run: -10~50°C, Storage:-25~70°C
	Humidity	≤85%RH, No condensation or corrosive gases
	Altitude	≤3000m

## Optional Function Combination Selection Table

Module Name	Maximum number combination				
	I	II	III	IV	V
Discrete input	4	6	8	10	12
Discrete output	4	4	4	2	0
Analog output	4	2	0	0	0

## PC series appearance and installation dimensions



Model Code	Panel Size		Cutout Size		Length mm
	W	H	W	H	
<b>48</b>	50	50	45	45	72
<b>72</b>	75	75	67	67	42
<b>80</b>	84	84	76	76	42
<b>96B</b>	96	52	91	45	69
<b>96</b>	96	96	91	91	42
<b>120</b>	120	120	111	111	42
<b>160B</b>	160	80	151	71	70

Note: The length dimension does not include the terminal

## LED Single-Phase Ammeter

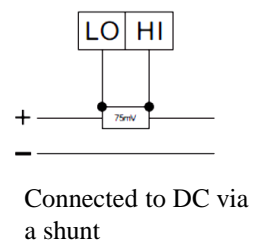
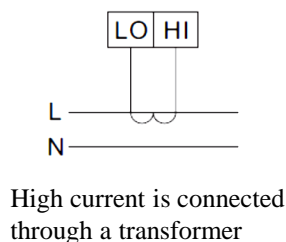
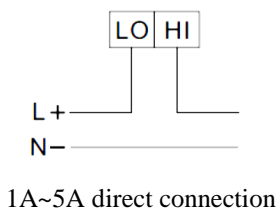


<b>Accuracy</b>	0.5						
<b>Measuring Current Range</b>	Direct connection: 1A~5A Connect current transformer: >5A						
<b>Power supply voltage</b>	Default: AC 220V, 50/60Hz ; Customize: AC380V, AC/DC85~265V, DC24V, DC36V, DC48V						
<b>Type</b>	<b>PC48-I</b>	<b>PC72-I</b>	<b>PC80-I</b>	<b>PC96B-I</b>	<b>PC96-I</b>	<b>PC120-I</b>	<b>PC160B-I</b>
<b>RS485</b>	1	2	2	1	2	2	1
<b>Analog transmission output</b>	1	4	4	1	4	4	1
<b>Relay output</b>	2	4	4	2	4	4	2
<b>Discrete input</b>	-	12	12	2	12	12	2

**Note 1:** The attachment function is not included by default. Various optional functions can be selected from the table, and specific combinations can be negotiated and customized.

**Note 2:** Other special requirements can be negotiated and customized.

### Electrical wiring diagram



## LED Series Single-Phase Voltmeter

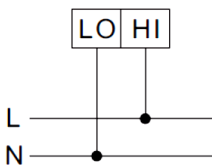


<b>Accuracy</b>	0.5						
<b>Measuring Current Range</b>	AC: 0~500V 45~65Hz ; Above 500V, it must be connected through a voltage transformer DC: 0~500V						
<b>Power supply voltage</b>	AC 220V, 50/60Hz ; Or AC380V, AC/DC85~265V, DC24V, DC36V, DC48V						
<b>Type</b>	PC48-U	PC72-U	PC80-U	PC96B-U	PC96-U	PC120-U	PC160B-U
<b>RS485</b>	1	2	2	1	2	2	1
<b>Analog transmission output</b>	1	4	4	1	4	4	1
<b>Relay output</b>	2	4	4	2	4	4	4
<b>Discrete input</b>	-	12	12	2	12	12	2

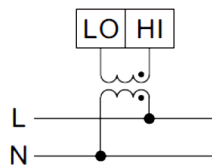
**Note 1:** The attachment function is not included by default. Various optional functions can be selected from the table, and specific combinations can be negotiated and customized.

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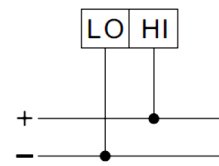
### Electrical wiring diagram



Wiring at 500VAC and below



Above 500VAC connected via transformer



Wiring at 500VDC and below

## LED Series Single Phase Multifunction Meter

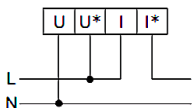


<b>Accuracy</b>	0.5					
<b>Measurement Range</b>	AC: 1A~5A, 0~500VAC, (45~65)Hz <i>Those exceeding the current or voltage range must be connected through a transformer.</i>					
<b>Power Supply Voltage</b>	Default: AC 220V, 50/60Hz ; Or AC380V, AC/DC85~265V, DC24V, DC36V, DC48V					
<b>Function</b>	Single-phase current, single-phase voltage, frequency, active power, reactive power, apparent power, power factor, four-quadrant electric energy metering					
<b>Type</b>	PC72-E	PC80-E	PC96B-E	PC96-E	PC120-E	PC160B-E
<b>RS485</b>	1	1	-	1	1	-
<b>Temperature Measurement</b>	1	1	1	1	1	1
<b>Analog transmission output</b>	4	4	1	4	4	1
<b>Relay output</b>	4	4	2	4	4	2
<b>Discrete input</b>	12	12	2	12	12	2

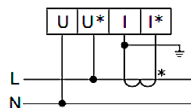
**Note 1:** All types are equipped with 1-channel RS485 communication as standard. Other optional functions shall be selected according to the table, and specific combinations can be customized through negotiation.

**Note 2:** Other special requirements can be customized through negotiation.

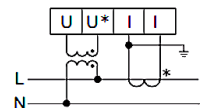
### Electrical wiring diagram



500VAC, 5A and below wiring



Wiring below 500VAC and above 5A



500VAC, 5A or above wiring

## LED Series Three-Phase Ammeter

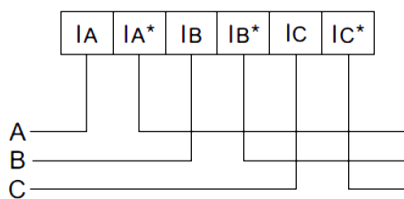


<b>Accuracy</b>	0.5						
<b>Measurement Range</b>	AC 1A~5A; 45~65Hz 5A or above must be connected through a current transformer						
<b>Power supply voltage</b>	Default: AC 220V, 50/60Hz ; Or AC380V, AC/DC85~265V, DC24V, DC36V, DC48V						
<b>Type</b>	PC48-3I	PC72-3I	PC80-3I	PC96B-3I	PC96-3I	PC120-3I	PC160B-3I
<b>RS485</b>	1	2	2	1	2	2	1
<b>Analog transmission output</b>	1	4	4	1	4	4	1
<b>Relay output</b>	2	4	4	2	4	4	2
<b>Discrete input</b>	-	12	12	2	12	12	2

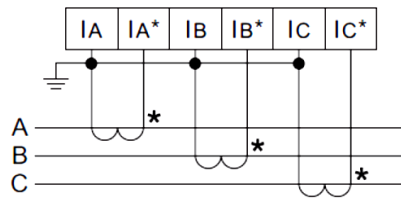
**Note 1:** The attachment function is not included by default. Various optional functions can be selected from the table, and specific combinations can be negotiated and customized.

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### Electrical wiring diagram



500VAC, 5A and below wiring



Wiring below 500VAC and above 5A

## LED Series Three-Phase Voltmeter



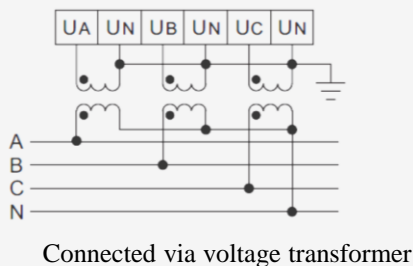
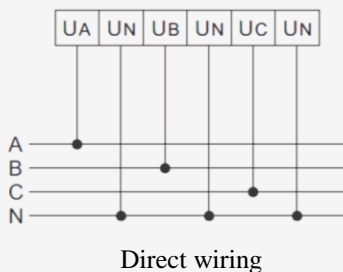
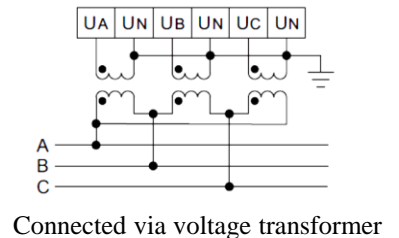
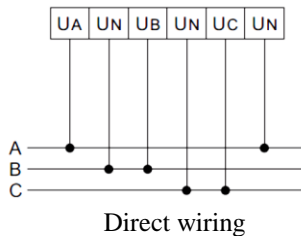
<b>Accuracy</b>	0.5						
<b>Measurement Range</b>	AC 0~500V; 45~65Hz 500VAC and above must be connected through a voltage transformer						
<b>Power supply voltage</b>	Default: AC 220V, 50/60Hz ; Or AC380V, AC/DC85~265V, DC24V, DC36V, DC48V						
<b>Type</b>	PC48-3U	PC72-3U	PC80-3U	PC96B-3U	PC96-3U	PC120-3U	PC160B-3U
<b>RS485</b>	1	2	2	1	2	2	2
<b>Analog transmission output</b>	1	4	4	1	4	4	1
<b>Relay output</b>	2	4	4	2	4	4	2
<b>Discrete input</b>	-	12	12	2	12	12	2

**Note 1:** The attachment function is not included by default. Various optional functions can be selected from the table, and specific combinations can be negotiated and customized.

**Note 2:** Other special requirements can be negotiated and customized.

### Electrical wiring diagram

three-phase three-wire system



Three-phase four-wire system

## LED Series Three phase multifunctional instrument



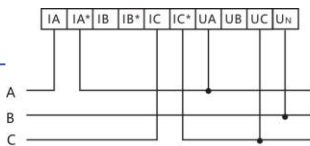
<b>Accuracy</b>	0.5					
<b>Measurement Range</b>	AC: 1A~5A, 0~500VAC, 45~65Hz, Access via a transformer is required when exceeding the range.					
<b>Power Supply Voltage</b>	Default: AC 220V, 50/60Hz ; Or AC380V, AC/DC85~265V, DC24V, DC36V, DC48V					
<b>Function</b>	Current, voltage, frequency, power factor, active power, reactive power, apparent power, four-quadrant electric energy measurement					
<b>Type</b>	PC72-3E	PC80-3E	PC96B-3E	PC96-3E	PC120-3E	PC160B-3E
<b>RS485</b>	1	1	-	1	1	1
<b>Temperature Measurement</b>	1	1	1	1	1	1
<b>Analog transmission output</b>	4	4	1	4	4	1
<b>Relay output</b>	4	4	2	4	4	2
<b>Discrete input</b>	12	12	2	12	12	2

**Note 1:** All types are equipped with 1-channel RS485 communication as standard. Other optional functions shall be selected according to the table, and specific combinations can be customized through negotiation.

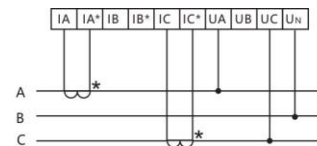
**Note 2:** Other special requirements can be customized through negotiation.

### Electrical wiring diagram

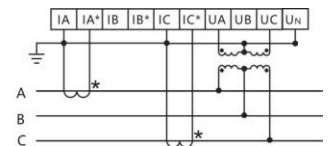
three-phase three-wire system



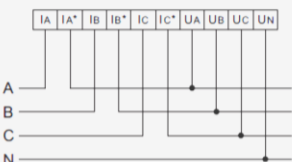
Direct wiring



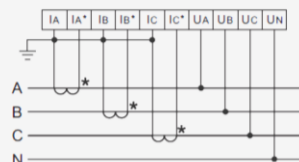
Wiring via current transformers



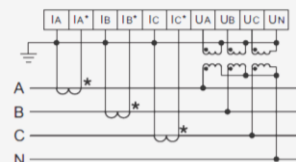
Connected via current and voltage transformers



Direct wiring



Wiring via current transformers



Connected via current and voltage transformers

Three-phase four-wire system

## LCD Series Single phase multifunction meter

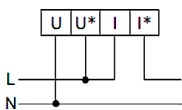


<b>Accuracy</b>	0.5				
<b>Measurement Range</b>	1A~5A, 0~500VAC , (45~65) Hz				
<b>Power Supply Voltage</b>	Default: AC 220V, 50/60Hz ; Or AC380V, AC/DC85~265V, DC24V, DC36V, DC48V				
<b>Function</b>	Current, voltage, frequency, power factor, active power, reactive power, apparent power, four-quadrant electric energy measurement				
<b>Type</b>	<b>PC48Y-E</b>	<b>PC72Y-E</b>	<b>PC80Y-E</b>	<b>PC96Y-E</b>	<b>PC120-E</b>
<b>RS485</b>	-	1	1	1	1
<b>Analog transmission output</b>	1	4	4	4	4
<b>Relay output</b>	2	4	4	4	4
<b>Discrete input</b>	-	12	12	12	12

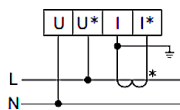
**Note 1:** All types are equipped with 1-channel RS485 communication as standard. Other optional functions shall be selected according to the table, and specific combinations can be customized through negotiation.

**Note 2:** Other special requirements can be customized through negotiation.

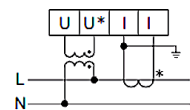
### Electrical wiring diagram



500VAC, 5A and below wiring



Wiring below 500VAC and above 5A



500VAC, 5A or above wiring

## LCD Series Three-Phase Ammeter

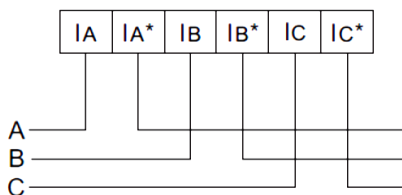


<b>Accuracy</b>	0.5				
<b>Measurement Range</b>	AC 1A~5A; 45~65Hz For currents above 5A, access shall be made via current transformers.				
<b>Power Supply Voltage</b>	Default: AC 220V, 50/60Hz ; Or: AC380V, AC/DC85~265V, DC24V, DC36V, DC48V				
<b>Type</b>	<b>PC48Y-3I</b>	<b>PC72Y-3I</b>	<b>PC80Y-3I</b>	<b>PC96Y-3I</b>	<b>PC120Y-3I</b>
<b>RS485</b>	1	2	2	2	2
<b>Analog variable transmission output</b>	1	4	4	4	4
<b>Relay output</b>	2	4	4	4	4
<b>Digital input</b>	-	12	12	12	12

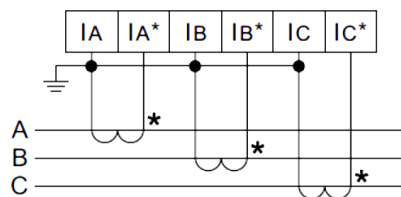
**Note 1:** All types are equipped with 1-channel RS485 communication as standard. Other optional functions shall be selected according to the table, and specific combinations can be customized through negotiation.

**Note 2:** Other special requirements can be customized through negotiation.

### Electrical wiring diagram



500VAC, 5A and below wiring



Wiring below 500VAC and above 5A

## LCD Series Three-Phase Voltmeter



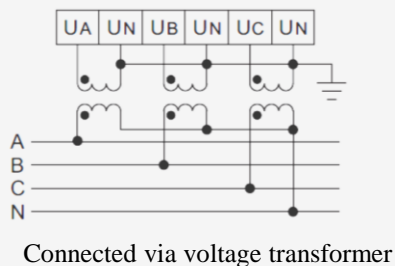
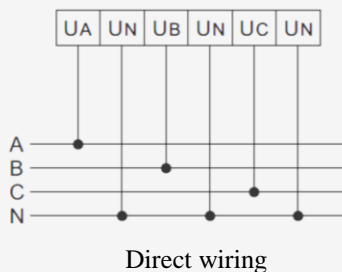
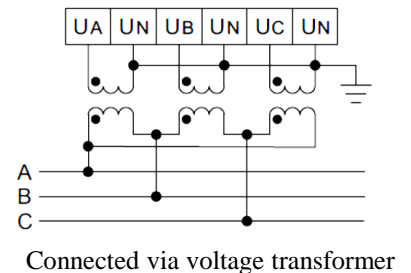
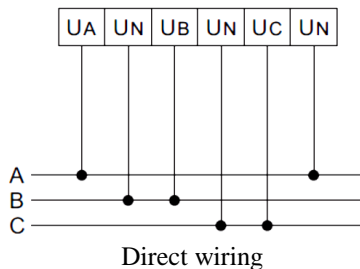
<b>Accuracy</b>	0.5				
<b>Measurement Range</b>	AC 0~500V; Voltages above 500V must be connected via a voltage transformer.				
<b>Power Supply Voltage</b>	Default: AC 220V, 50/60Hz ; Or: AC380V, AC/DC85~265V, DC24V, DC36V, DC48V				
<b>Type</b>	<b>PC48Y-3U</b>	<b>PC72Y-3U</b>	<b>PC80Y-3U</b>	<b>PC96Y-3U</b>	<b>PC120Y-3U</b>
<b>RS485</b>	1	2	2	2	2
<b>Analog variable transmission output</b>	1	4	4	4	4
<b>Relay output</b>	2	4	4	4	4
<b>Digital input</b>	-	12	12	12	12

**Note 1:** All types are equipped with 1-channel RS485 communication as standard. Other optional functions shall be selected according to the table, and specific combinations can be customized through negotiation.

**Note 2:** Other special requirements can be customized through negotiation.

### Electrical wiring diagram

three-phase three-wire system



Three-phase four-wire system

## LCD Series Three phase multifunctional instrument



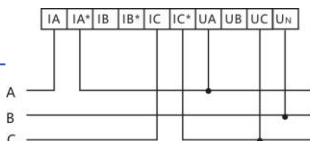
<b>Accuracy</b>	0.5				
<b>Measurement Range</b>	1A~5A; 0~500VAC; (45~65)Hz , Access shall be made via a transformer if the range is exceeded.				
<b>Power Supply Voltage</b>	Default: AC 220V, 50/60Hz ; Or: AC380V, AC/DC85~265V, DC24V, DC36V, DC48V				
<b>Function</b>	Current, voltage, frequency, power factor, active power, reactive power, apparent power, four-quadrant electric energy metering				
<b>Type</b>	PC48Y-3E	PC72Y-3E	PC80Y-3E	PC96Y-3E	PC120Y-3E
<b>RS485</b>	-	1	1	1	1
<b>Temperature Measurement</b>	1	4	4	4	4
<b>Analog transmission output</b>	1	4	4	4	4
<b>Relay output</b>	2	4	4	4	4
<b>Discrete input</b>	-	12	12	12	12

**Note 1:** All types are equipped with 1-channel RS485 communication as standard. Other optional functions shall be selected according to the table, and specific combinations can be customized through negotiation.

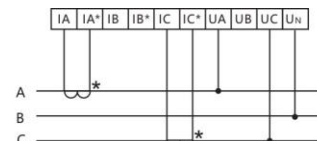
**Note 2:** Other special requirements can be customized through negotiation.

### Electrical wiring diagram

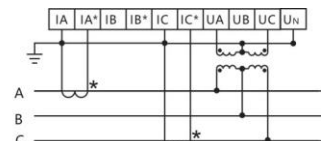
three-phase three-wire system



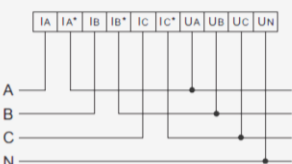
Direct wiring



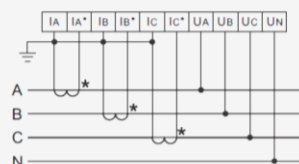
Wiring via current transformers



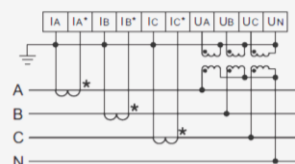
Connected via current and voltage transformers



Direct wiring



Wiring via current transformers



Connected via current and voltage transformers

Three-phase four-wire system