



Type designation

YC- □ □ - □ □ + □

- Additional function
 - nDO: switch value output (n=1,2,3,4 channels)
 - nDI: switch value input (n=1,2,3,4 channels)
 - nAO: analog quantity output (n=1,2,3,4 channels)
 - H: harmonic
- Measurement parameters (can combine several parameters)
 - U: Voltage I: Current F: Frequency H: Power factor P: Active power
 - Q: Reactive power R: Revolutions per minute E: Multifunction power meter
- Phase
 - Omit: Single-phase or DC 3: Three-phase
- Display mode
 - 1: One-row nixietube display 2: Two-row nixietube display
 - 3: Three-row nixietube display 4: Four-row nixietube display
 - 5: Five-row nixietube display 6: Six-row nixietube display Y: LCD display
- Function code
 - K: Programmable meter without RS485 communication
 - S: Programmable meter with RS485 communication C: Sensor signal meter
- Shape code
 - 4: 48×48 5: 96×48 7: 72×72
 - 8: 80×80 9: 96×96 G: modular type

Technical data

Technical parameters		Index	
Input	Voltage	Rated value	AC 0~600V
		Over load	Consistent: 1.2 times instantaneous: 2 times/30s
		Consumption	<0.5VA (each phase)
		Impedance	>500kΩ
	Current	Rated value	AC 1A, 5A
		Over load	Consistent: 1.2 times instantaneous: 2times/1s
Impedance		<2mΩ	
Frequency		45~65Hz	
Measuring accuracy	Voltage, current		±(0.5%FS+one digit)
	Active reactive power		±(0.5%FS+one digit)
	Frequency		±0.1Hz
	Harmonic		The three-phase voltage/current 21 total harmonic content
	Power factor		±0.01PF
	Active energy		±0.5%(only for reference, not for meterage)
	Reactive energy		±1.0%(only for reference, not for meterage)
Power	Scope		AC 220V, 50/60Hz AC/DC 85~265V
	Consumption		<5VA
Safety	Withstand voltage	Input and power	>2kV50Hz/1min
		Input and output	>1kV50Hz/1min
		Output and power	>2kV50Hz/1min
Insulating resistance		Any two of input, output, power, casing>20MΩ	
Environment	Temperature		Operation: -10~50°C
			Storage: -25~70°C
	Humidity		≤85%RH, free of wet and corrosive gas
	Elevation		≤3000m





YC-K1-I



YC-K1-F



YC-K1-U

1. Technical data

Measuring range:

Digital AC Ammeter: Direct measurement: AC 0~5A; Accessory device: AC 0~9999A(CT */ 5A).

Digital DC Ammeter: Direct measurement: DC 0~5A; Accessory device: DC 0~9999A(Shunt */ 75mV).

Digital AC Voltmeter: Direct measurement: AC 0~600V; Accessory device: AC 0~9999KV(PT */ 100V)

Digital DC Voltmeter: Direct measurement: DC 0~600V

Digital Frequency Meter: 30.00~99.99Hz(AC 30~500V)

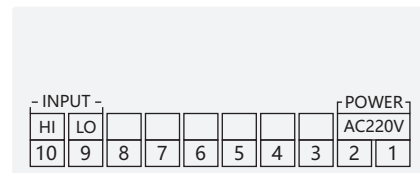
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

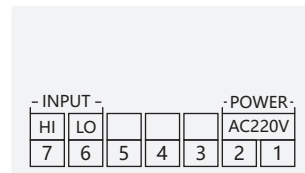
Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:DC 24V,DC 48V,AC/DC 85~265V).

2. Terminal arrangement

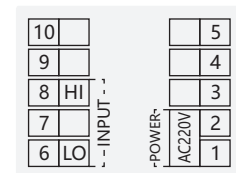
Attention: If it is not the same with the wiring schema of diagram behind case, please refer to the diagram behind the case.



YC series 96x96 96x48



YC series 80x80 72x72



YC series 48x48

3. Model and Specification

Model	Function & Shape	Measure & Display			Shape Code(Figure Inside□)					Selected Additional Functions		
		Current	Voltage	Frequency	9 96x96	8 80x80	7 72x72	5 96x48	4 48x48	Communication interface:RS485	2-channels switch output	1-channels analog output
YC-□K1-I		•			√	√	√	√	√			
YC-□K1-U			•		√	√	√	√	√			
YC-□K1-F				•	√	√	√	√	√			
YC-□K1-I+RS		•			√	√	√	√	√	+		
YC-□K1-U+RS			•		√	√	√	√	√	+		
YC-□K1-F+RS				•	√	√	√	√	√	+		
YC-□K1-I+2DO		•			√	√	√	√	√		+	
YC-□K1-U+2DO			•		√	√	√	√	√		+	
YC-□K1-F+2DO				•	√	√	√	√	√		+	
YC-□K1-I+1AO		•			√	√	√	√	√			+
YC-□K1-U+1AO			•		√	√	√	√	√			+
YC-□K1-F+1AO				•	√	√	√	√	√			+



YC-K1-P



YC-K1-H



YC-K1-P

1. Technical data

Measuring range:

Digital Power Factor Meter:0.000C~0.500C~1.000~0.500L~0.000L.

Digital Active Power Meter: 0~999W~999KW~9999MW.

Signal input: Voltage: AC 0~500V(PT */ 100V),Current: AC 5A (CT */ 5A or 1A).

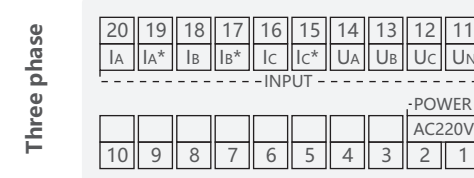
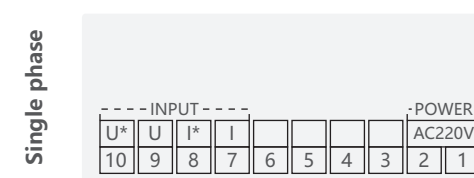
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

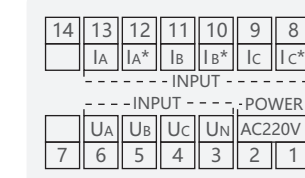
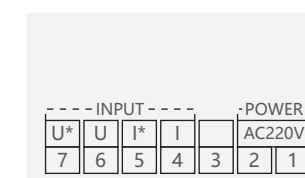
Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:DC 24V,DC 48V,AC/DC 85~265V).

2. Terminal arrangement

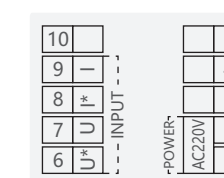
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96x96 96x48



80x80 72x72



48x48

3. Model and Specification

Model	Function & Shape	Measure & Display				Shape Code(Figure Inside□)					Selected Additional Functions
		1-phase power factor	1-phase active power	3-phase power factor	3-phase active power	9 96x96	8 80x80	7 72x72	5 96x48	4 48x48	
YC-□K1-H		•				√	√	√	√	√	
YC-□K1-P			•			√	√	√	√	√	
YC-□K1-3H				•		√	√	√	√	√	
YC-□K1-3P					•	√	√	√	√	√	
YC-□K1-H+RS		•				√	√	√	√	√	+
YC-□K1-P+RS			•			√	√	√	√	√	+
YC-□K1-3H+RS				•		√	√	√	√	√	+
YC-□K1-3P+RS					•	√	√	√	√	√	+



YC-K3-3I



YC-K3-3U

1. Technical data

Measuring range:

Three Phase Digital Ammeter:Direct measurement:AC 0~5A;Accessory device: AC 0~9999A(CT */ 5A).

Three Phase Digital Voltmeter:Direct measurement:AC 0~600V;Accessory device: AC 0~9999KV(PT */ 100V)

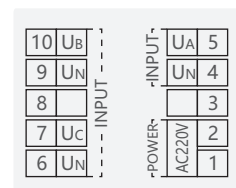
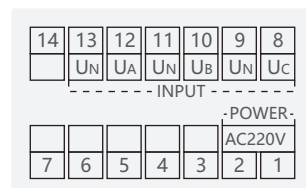
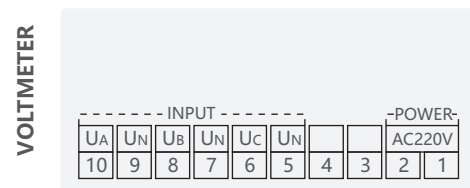
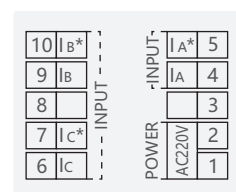
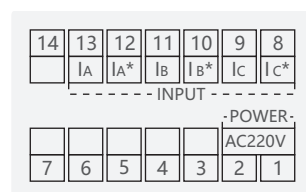
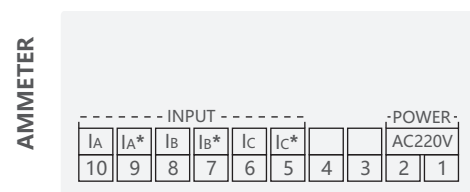
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:DC 24V,DC 48V,AC/DC 85~265V).

2. Terminal arrangement

Attention:If it is not the same with the wiring schema of diagram behind case, please refer to the behind the case.



YC series 96×96

YC series 80×80 72 ×72

YC series 48×48

3. Model and Specification

Model	Function & Shape	Measure & Display		Shape Code(Figure Inside□)				Selected Additional Functions		
		Three Phase Current	Three Phase Voltage	9	8	7	4	Communication interface:RS485	2-channels switch output	1-channels analog output
YC-□ K3-3I		•	•	√	√	√	√			
YC-□ K3-3U				√	√	√	√			
YC-□ K3-3I+RS		•	•	√	√	√		+		
YC-□ K3-3U+RS				√	√	√		+		
YC-□ K3-3I+2DO		•	•	√					+	
YC-□ K3-3U+2DO				√					+	
YC-□ K3-3I+1AO		•	•	√						+
YC-□ K3-3U+1AO				√						+



YC-K2-UI



YC-K3-UIF



YC-K3-UIH



YC-K3-UIP

1. Technical data

Measuring range:

Voltage: AC 0~500V Current: AC 0~9999A Frequency:45~65Hz or Power Factor:0.0C~0.5C~1.0~0.5L~0.0L or Active Power:0~9999KW

Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

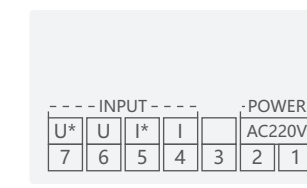
Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:DC 24V,DC 48V,AC/DC 85~265V).

2. Terminal arrangement

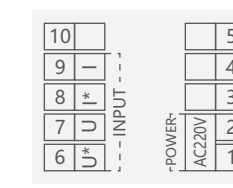
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YC series 96×96



YC series 80×80 72×72



YC series 48×48

3. Model and Specification

Model	Function & Shape	Measure & Display					Shape Code(Figure Inside□)				Selected Additional Functions		
		Current	Voltage	Frequency	Power Factor	Active Power	9	8	7	4	Communication interface:RS485	2-channels switch output	1-channels analog output
YC-□ K2-UI		•	•				√						
YC-□ K3-UIF		•	•	•			√	√	√	√			
YC-□ K3-UIH		•	•		•		√	√	√	√			
YC-□ K3-UIP		•	•			•	√	√	√	√			
YC-□ K3-UIF+RS		•	•	•			√	√	√		+		
YC-□ K3-UIH+RS		•	•		•		√	√	√		+		
YC-□ K3-UIP+RS		•	•			•	√	√	√		+		
YC-□ K3-UIF+2DO		•	•	•			√					+	
YC-□ K3-UIH+2DO		•	•		•		√					+	
YC-□ K3-UIP+2DO		•	•			•	√					+	
YC-□ K3-UIF+1AO		•	•	•			√						+
YC-□ K3-UIH+1AO		•	•		•		√						+
YC-□ K3-UIP+1AO		•	•			•	√						+



1. Technical data

Measuring range:

- Phase voltage(UA UB UC) 0~500V •Line voltage(UAB UBC UCA) 0~500V •Current(IA IB IC) 0~9999A
- Frequency or Frequency&Power Factor or Active Power.

Signal input: Voltage: AC 0~500V(PT */ 100V),Current: AC 5A (CT */ 5A)

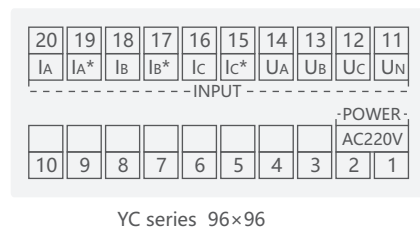
Accuracy rating: ±0.5 % FS±1 digit.

Measuring display mode: RMS measurement, four-digit LED nixietube display.

Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:AC/DC 85~265V).

2. Terminal arrangement

Attention:If it is not the same with the wiring schema of diagram behind case, please refer to the behind the case.



YC series 96×96

3. Model and Specification

Model	Function & Shape		Measure & Display				Shape Code (Figure Inside □)	Selected Additional Functions	
	Phase Voltage	Line Voltage	Current	Frequency	Power Factor	Active Power	96×96	Communication interface:RS485	4-channels switch output
YC-9K5-3UIF	•	•	•	•			√		
YC-9K5-3UIHF	•	•	•	•	•		√		
YC-9K5-3UIP	•	•	•			•	√		
YC-9K6-3UI	•	•	•				√		
YC-9K5-3UIF+RS	•	•	•	•			√	+	
YC-9K5-3UIHF+RS	•	•	•	•	•		√	+	
YC-9K5-3UIP+RS	•	•	•			•	√	+	
YC-9K6-3UI+RS	•	•	•				√	+	
YC-9K5-3UIF+4DO	•	•	•	•			√		+
YC-9K5-3UIHF+4DO	•	•	•	•	•		√		+
YC-9K5-3UIP+4DO	•	•	•			•	√		+
YC-9K6-3UI+4DO	•	•	•				√		+



1. Technical data

Measuring range:

- Phase voltage(UA,UB,UC):0~500V •Line voltage(UAB,UBC,UCA): 0~500V
- Current(IA,IB,IC): 0~9999A •Frequency: 45~65Hz
- Power factor(PFA,PFB,PFC,PFS) : 0.0C~1.0~0.0L •Active power(PA,PB,PC,PS): 0~999W~999KW~9999MW
- Reactive power(QA,QB,QC,QS): 0~999Var~999KVar~9999MVar •Apparent power(SA,SB,SC,SS): 0~999VA~999KVA~9999MVA
- Active electric energy: 0~9999999KWh~9999999MWh •Reactive electric energy: 0~9999999KVarh~9999999MVarh

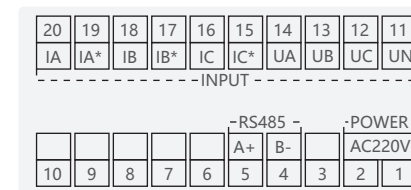
Signal input: AC 0~500V(PT */ 100V),AC 5A (CT */ 5A) Accuracy rating : ±0.5 % FS±1 digit.

Communication interface : RS485 communication, MODBUS_RTU protocol. Measuring display mode: RMS measurement

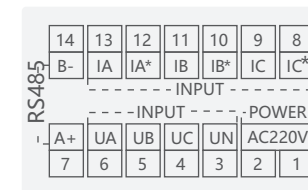
Auxiliary power supply: AC 220V,50/60Hz(Can customize other values:AC/DC 85~265V).

2. Terminal arrangement

Attention:If it is not the same with the wiring schema of diagram behind case, please refer to the behind the case.



YC series 96×96



YC series 80×80 72×72

3. Model and Specification

Model	Function & Shape		Measure & Display												Shape Code (Figure Inside □)			Selected Additional Functions					
	Phase Voltage	Line Voltage	Current	Frequency	Total Power Factor	Total Active Power	Total Reactive Power	Total Apparent Power	Each Phase Power Factor	Each Phase Active Power	Each Phase Reactive Power	Each Phase Apparent Power	Active Energy	Reactive Energy	96×96	80×80	72×72	Communication interface:RS485	4-channels switch output	4-channels switch input	4-channels analog output	Harmonic	
YC-□ S3-3E	•	•	•	•	•	•	•	•	•	•	•	•	•	•									
YC-□ SY-3E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√	√	√	+					
YC-□ S3-3E+4DO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√	√	√	+	+				
YC-□ SY-3E+4DO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√			+	+				
YC-□ S3-3E+4DI	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√			+		+			
YC-□ SY-3E+4DI	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√			+		+			
YC-□ S3-3E+4AO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√			+				+	
YC-□ SY-3E+4AO	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√			+				+	
YC-□ SY-3E+H	•	•	•	•	•	•	•	•	•	•	•	•	•	•	√			+					+

Energy Management

Digital Meter

Model	YC series installation dimension and terminal arrangement
YC-9K1-I	
YC-9K1-U	
YC-9K1-F	
YC-9K1-H	
YC-9K1-P	
YC-9K3-3I	
YC-9K3-3U	
YC-8K1-I	
YC-8K1-U	
YC-8K1-F	
YC-8K1-H	
YC-8K1-P	
YC-7K1-I	
YC-7K1-U	
YC-7K1-F	
YC-7K1-H	
YC-7K1-P	
YC-5K1-I	
YC-5K1-U	
YC-5K1-F	
YC-5K1-H	
YC-5K1-P	

Model	YC series installation dimension and terminal arrangement
YC-9K1-3P	
YC-9K5-3UIF	
YC-9K5-3UIHF	
YC-9K5-3UIP	
YC-9K6-3UI	
YC-9S3-3E	
YC-9SY-3E	
YC-8K3-3I	
YC-8K3-3U	
YC-8K3-UIF	
YC-8S3-3E	
YC-8SY-3E	
YC-7K3-3I	
YC-7K3-3U	
YC-7K3-UIF	
YC-7S3-3E	
YC-7SY-3E	
YC-4K1-I	
YC-4K1-U	
YC-4K1-F	
YC-4K1-H	
YC-4K1-P	
YC-4K3-3I	
YC-4K3-3U	
YC-4K3-UIF	

Installation method

