Made by Salzer

Sole Agent in Indonesia
PD. JAYA KUSUMA MAKMUR
RUKO GOLDEN BOULEVARD BLOCK F1 No.9 BSDCity, SERPONG - TANGERANG 15130
Tel: (021)70951261, Fax: (021)53160896

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products approved in 2006

www.salzer-electric.com

樂清市樂怡電器有限公司
YUEQING LEYI ELECTRIC CO., LTD.

Brief Introduction

YUEQING LEYI ELECTRIC CO.,LTD. is one of the biggest manufacturer and Exporter of Panel meter in Wenzhou China. We manufacture SA-96,SA-72 and SA-48 Series point meter, SA-D96 and SA-D72 series digital meter. All the meters are as per IEC-51 and CE approved.

Our brand for the meters is salzer. Now YUEQING LEYI ELECTRIC CO.,LTD. has established long term business cooperation with over 42 countries. With superior quality and excellent service, YUEQING LEYI ELECTRIC CO.,LTD. will be one of the most significant and dynamic company in electrical products area.

Thank you for choosing our salzer brand products!

Moving Iron Instruments AC Ammeters and Voltmeter

SA-48(F)

SA-48(F)

SA-72(F)

SA-72(F)

SA-96(F)

Feature: With cover on movement (F), without cover on movement (C).
Model: SA-T96A, SA-T96V, SA-T72A, SA-T72V, SA-T48A, SA-T48V.
Accuracy: Class 1.5.
Specification: 0.1A, 0.5A, 1A, 7.5A, 10A, 15A, 20A, 25A, 30A, 40A, 50A, 60A, 75A, 100A.
For 10A-10KA, use external current transformer with secondary current 1A or 5A.
Notes: 60A, 75A, 100A directing reading meters can be directly connected to circuit, but their accuracy is class 2.5. For SA-48 Ammeter, 20A to 60A direct reading meter can be directly connected to circuit, but the accuracy class is 2.5.
Changeable scale: All scales with printing technique. The dial plates with different scale, which is at the same division and internal value, can be changeable, and the accuracy is unchangeable. The scale plates of SA-48 meter can be changeable with the same division.
Specification of Voltmeter: 30V, 50V, 75V, 100V, 120V, 150V, 200V, 250V, 450V, 500V, 600V For 450-450KV, meters can use potential transformer with secondary voltage 100V.
Heat resistance: Case of non-combustible plastic material.Fastening by means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Moving Coil Instruments With Rectifier (90 DEG, 240 DEG)AC Ammeters and Voltmeter

SA-96(C)

SA-96

SA-96

Feature: With cover on movement (F), without cover on movement (C).
Model: 90 DEG: SA-L96A, SA-L96V, SA-L72A, SA-L72V, SA-L48A, SA-L48V.
240 DEG: SA-L96A, SA-L96V, SA-L72A, SA-L72V, SA-L48A, SA-L48V.
Accuracy: Class 1.5.
Specification: 0.5A, 1A, 1.5A, 3A, 5A, 7.5A, 10A, 15A, 20A
For 10A-10KA, use external current transformer with secondary current 1A or 5A.
Changeable scale: All scales with printing technique. The dial plates with different scale, which is at the same division and internal value, can be changeable, and the accuracy is unchangeable.
Specification of Voltmeter: 3V, 5V, 7.5V, 10V, 15V, 20V, 30V, 50V, 100V, 120V, 150V, 200V, 250V, 450V, 500V, 600V For 450-450KV, meters can use potential transformer with secondary voltage 100V.
Heat resistance: Case of non-combustible plastic material.
Fastening by means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Moving Coil Instruments DC Ammeters and Voltmeter

SA-72(F)

SA-96(F)

SA-96

SA-96(C)

Feature: With cover on movement (F),without cover on movement (C).
Model: 90 DEG: SA-C96A, SA-C96V, SA-C72A, SA-C72V, SA-C48A, SA-C48V.
240 DEG: SA-C96A, SA-C96V, SA-C72A, SA-C72V, SA-C48A, SA-C48V.
Accuracy: Class 1.5.
Specification: 100μA, 500μA, 1mA, 2mA, 5mA, 10mA, 20mA, 30mA, 50mA, 75mA, 100mA, 150mA, 200mA, 250mA, 300mA, 500mA, 1A, 3A, 7.5A, 10A, 20A, 30A, 50A, 60A, 75A, 100A.
The Max current for the direct reading of the SA-C48A meter is 60A.
From 20A to 60A direct reading meter, the accuracy is class 2.5. For the specifications of 10A-10KA,
Ammeter is used with external shunt 75mV, 60mV, 45mV.
For 60A to 100A meters, they can be directly connected to circuit, but the accuracy is class 2.5.
The accuracy of 50μA is class 2.5 Changeable scale: All scales with printing technique. The dial plates with different scale, which is at the same division and internal value, can be changeable, But the accuracy is unchangeable.
Specification of Voltmeter: 3V, 5V, 7.5V, 10V, 15V, 20V, 30V, 50V, 75V, 100V, 120V, 150V, 200V, 250V, 300V, 400V, 450V, 500V, 600V, 1000V For specifications more than 450V, meters can be used with external resistor (rated current 5mA, 1mA).
Heat resistance: Case of non-combustible plastic material. Fastening by means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Moving Iron AC Voltmeter With Change Over Switch

SA-72(F)

SA-96(C)

SA-96(C)

The instrument are suitable for measuring AC Voltages In Three phase 4 or 3 wire networks by using a change over switch on the front side of the instrument.
Feature: with cover on movement (F), without cover on movement.
Model: SA-Z96V, SA-Z72V.

Technical data
Movement: Moving-iron movement with oil filled bearings, practically vibration-free oil damping.
Class of accuracy: 1.5.
Frequency range: 50HZ.
3 phase 3 wire Measuring range: 100V, 150V, 200V.
250V, 400V, 500V.
3 Position: L1-L2, L1-L3, L2-L3.
3 phase 4 wire Measuring range: 60V/100V, 80/150V, 100/200V.
150/250V, 250/400V, 300/500V.
6 Position: L1-L2, L1-L3, L2-L3, L1-N, L2-N, L3-N.
7 Position: L1-L2, L1-L3, L2-L3, L1-N, L2-N, L3-N, OFF.
Heat resistance: Case of non-combustible plastic material.
Fastening by means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Moving Iron AC Ammeter With Change Over Switch

SA-96(C)

SA-96(C)

The instrument are suitable for measuring AC Ampere In 4 or 3 wire networks by using a change over switch on the front side of the instrument.
Feature: with cover on movement (F), without cover on movement (C).
Model: SA-Z96A, SA-Z72A.

Technical data
Movement: Moving-iron movement with oil filled bearings, practically vibration-free oil damping.
Accuracy: Class 1.5.
Frequency range: 50HZ.
Measuring range: 0.1A/1A, 0.2A/2A, 0.3A/3A.
0.4A/4A, 0.5A/5A, 1A/10A 5/5A.
3 phase 3 wire 2 Position: L1, L2.
3 phase 4 wire 3 Position: L1, L2, L3.
3 phase 4 wire 4 Position: L1, L2, L3, OFF.
Heat resistance: Case of non-combustible plastic material.
Fastening by means of nuts, absolutely safe, fast, robust, side by side.
Mounting depth: Max 43mm.

Frequency Meters (90 DEG, 240 DEG)

SA-96(F)

SA-96

SA-96(C)

Feature: With cover on movement (F), without cover on movement (C).
Accuracy: Class 1.0
Model: 90 DEG: SA-F96, SA-F72, SA-F48.
240 DEG: SA-F96, SA-F72, SA-F48.

Specification
Voltage: 50V, 100V, 220V, 380V, 440V, 415V.
Frequency: 45~55Hz, 45~65Hz, 55~65Hz, 47~53Hz, 57~63Hz, 44~56Hz, 54~66Hz, 350~450Hz, 450~550Hz, 450~650Hz, 550~650Hz.
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of must, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Power Factor Meter (90 DEG, 240 DEG)

SA-96(F)

SA-96

Feature: With cover on movement (F), without cover on movement (C).
Model: 90 DEG: SA-PF96, SA-PF72, SA-PF48.
240 DEG: SA-PF96, SA-PF72, SA-PF48.
Voltage (single phase): 100V, 220V, 380V, 415V, 440V/ current: 1A or 5A.
(three phases): 100V, 220V, 380V, 415V.
current: 1A or 5A.
Specification: 0.5cap-1-0.5ind, 0.3cap-1-0.1ind, 0.4cap-1-0.4ind, 0.7cap-1-0.2ind.
This meter can be used for single phase or three phase three wire circuit.
Accuracy: Class 2.5.
Frequency: 50Hz or 60Hz.
Heat resistance: Case of non-combustible plastic material.Fastening by means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Power Meter (90 DEG, 240 DEG)

SA-96(F)

SA-96

Feature: With cover on movement (F),without cover on movement (C) .
Model: 90 DEG: SA-W(Var)96, SA-W(Var)72, SA-W(Var)48.
240 DEG: SA-W(Var)96, SA-W(Var)72, SA-W(Var)48.
Accuracy: Class 1.5.

Specification
Voltage (Single phase): 100V, 220V, 380V.
(Three phase three wire): 100V, 220V, 380V, 415V.
(Three phase four wire): 100V, 220(380)V, 240(415)V. Above-mentioned can be connected directly.
The following should be connected with voltage
Transformers: 380/100V, 500/100V, 3K/100V, 6K/100V, 10K/100V, 15K/100V, 15K/100V, 35K/100V...
Current: 1A or 5A

The voltage circuits of the meter connected with voltage transformers. Which secondary voltage is 100V, if the secondary voltage is lower than 450V, it also can be connected directly. The current circuits connected with current transformers, which secondary current is 5A or 1A. Wattmeters and Varmeters with converter for three-phase three wires or four wire and single phase, which can be used for balance and unbalance burden circuit.
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of must, absolutely safe, fast, robust, side-by-side.
Mounting depth: SA-W(Var)96: Max 43mm, SA-W(Var)72: Max 113mm.

Synchroscope Meter

SA-96

Synchrony scope for phase comparison for Single phase or Three phases AC circuits, 50HZ or 60HZ.
Model: SA-S96, SA-S72

Specification
Voltage (single phases): 100V, 220V.
(three phases): 100V, 220V, 380V, 440V.
Working time: Max 15min.
Heat resistance: Case of non-combustible plastic material.
Mounting depth: Max 113mm.

Sequence Indicator

SA-96

This indicator is designed for easy testing of phase sequence In three-phase systems with a pe-rmissible operating voltage up to 500V.For short connections, not longer than 5 minutes for one test, a push-button switch is placed on the front plate. A disc with an indicating arrow rotates in the direction of the arrow, if the three phases are properly conn-ected, otherwise the disc rotates in the other direction. By changing of two wires, the phase sequence will be corrected to corre sponding designation of the terminals.
Model: SA-SI 96, SA-SI 72.

Specification
Voltage: 150-500V.
Working time: not more than 5 minutes.
Frequency: 50/60Hz.
Heat resistance: Case of non-combustible plastic material.
Mounting depth: Max 43mm.

Combined With Moving Iron Ammeters

SA-96(C)

For measuring mean maximum content value and instantaneous values for combined with moving iron Ammeters.
Model: SA-2M96, SA-2M72.
Accuracy: Class 3.0 (instantaneous values) Class 1.5.
Specification: 8min 5A,15min 5A, 8min 1A, 15min 1A.

With bimetal movement and thermal delayed indicator for measuring the maximum mean load during a period of 8 minutes or 15 minutes or 30 minutes, eats red maximum pointer. Lead seal can protect resetting knob of maximum pointer. Scale compressed at the beginning, convenient reading from 25% of full-scale deflection. Accuracy of m aximum load indication ±3% . Referred to the maximum pointer. Response time 8 or 15 or 30 minutes (to be specified when ordering).
Heat resistance: Case of non-combustible plastic material.
Changeable scale: All scales with printing technique. The dial plate with different scale, which is at the same internal value, can be changeable. But the accuracy is unchangeable.
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of must, absolutely safe,fast, robust, side-by-side.
Mounting depth: Max 43mm.

Maximum Demand Ammeter

SA-48(C)

SA-96(F)

For measuring mean maximum current value, when it is 8 min or 15 min or 30min.
Model: SA-M96, SA-M72, SA-M48.
Accuracy: Class 3.0.
Specification: 8min 5A, 15min 5A, 8min 1A, 15min 1A.

With bimetal movement and thermal delayed ind-icator for measuring the maximum mean load du-ring a period of 8minutes or 15 minutes, eats red maximum pointer. Lead seal can protect resetting knob of maximum pointer. Scale compressed at the beginning, convenient reading from 25% of full-scale deflection. Accuracy of maximum load indication ±3% . Reminutes (to be specified when ordering).
Heat resistance: Case of non-combustible plastic material.
Changeable scale: All scales with printing technique. The dial plate with different scale, which is at the same internal value, can be changeable. But the accuracy is unchangeable.
Fastening: By means of must, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Maximum Demand Indicator With Relay

SA-72(C)

SA-96(C)

Model: SA-AM96, SA-AM72.
Features: For the control of maximum Demand and the monitoring and control of overload on distribution systems. Constructed with an electronic circuit and 5A relay. The alarm is set by the blue slim pointer, the red light is the alarm one, which can be used with buzzer.
Accuracy: Class 3.0.
Frequency: 50/60Hz.
Rating: 1A, 5A for use with separate CT.
Burden: MDI2.2VA.
Overload: 1×1.2 continuous, 1×10 within 1 second, 1×20 within 1 second via 5/5 CT.
Relay Circuit Auxiliary: AC 220V±10%, 50/60Hz.
Burden: 2.6VA.
Bestrews: <1%.
Time delay: 1 second approximately fixed.
Alarm and Trip Point Working Range: 20-100%±1%added to the MDI.
Accuracy Relay: Single Pole Changeover.
Relay Rating: AC 250V 5A non inductive, DC 24V 2A Resistive.
Temperature: -10℃ to +50℃.
Mounting depth: SA-AM96: Max 43mm, SA-AM72: Max 113mm.

Moving Coil Instruments For Non-Electric Values (90 DEG, 240 DEG)

SA-96(C)

SA-96(C)

SA-96(C)

Feature: With cover on movement (F), without cover on movement (C).
Model: 90 DEG: SA -C96,SA -C72,SA -C48.
240 DEG: SA-C96,SA-C72,SA-C48.
These meters can measure the others non-electric.
values: Temperature, speed, and so on.
Signal Input: DC 10V, DC 4-20mA, DC 0-20mA,
DC 0-100mA, DC 0-1mA, DC 0-5mA...
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of must, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Elapsed Time Meter Or Hours Run Meter

SA-48

SA-96

Model: SA-H96, SA-H72, SA-H48.
Display: 99999.99.
Voltage: AC/DC 12V, 24V, 60V, 100V, 200V, 380V.
Burden: 2.5VA.
Frequency: 50Hz or 60Hz.
Features: Elapsed Time Meters or Hours Run Meters monitor ON/RUN time of plant and equipment allowing the user to perform functions such as Production Efficiency Cost Estimating and Service Period monitor-ink for preventatives maintenance etc. The time is measured in instrument of 0.01h up to 99999.99 hours after which time the meter resets to zero. Non-reset table to prevent accidental res-etting.
Heat resistance: Case of non-combustible plastic material.
Mounting depth: Max 43mm.

Frequency Meter With Reeds Types

SA-96

SA-96

One row of reeds Model: SA-R96, SA-R72.
Two rows of reeds Model: SA-2R96.
Accuracy: Class 0.5.

Specification
Voltage: 50V, 100V, 220V, 380V, 440V, 415V.
Frequency: 45~55Hz, 45~65Hz, 55~65Hz, 47~53Hz, 57~63Hz, 44~56Hz, 54~66Hz.

This vibrating reed frequency meter with one row of horizontal reeds or with two rows of horizontally arranged reeds for connection to one main voltage. Vertical arrangements on request.
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Double Voltmeter, Double Ammeter and Double Frequency meter

SA-96(C)

SA-96(C)

Double Voltmeter model(moving iron): SA-2T96-V, SA-2T72-V.
Double Voltmeter model(moving coil): SA-2L96-V, SA-2L72-V.
Specification: 0-100V, 0-300V, 0-500V.
Double Ammeter model(moving iron): SA-2T96-A, SA-2T72-A.
Double Ammeter model(moving coil): SA-2L96-A, SA-2L72-A.
Specification: 1-5A.
Double Frequency Meter Model: SA-2F96, SA-2F72.
Accuracy: Class 0.5.
Specification: 50V, 100V, 220V, 380V.
Frequency: 45~55Hz, 45~65Hz, 55~65Hz.
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of nuts, absolutely safe, fast, robust, side-by-side.
Mounting depth: Max 43mm.

Moving Coil Instruments For Rated Voltmeter

SA-96(C)

Model: SA-L96RV, SA-L72RV, SA-L48RV.
Specification: 0/90-110V, 0/100-120V, 0/180-240V.
0/200-240V, 0/340-420V.
Heat resistance: Case of non-combustible plastic material.
Fastening: By means of nuts, absolutely safe,fast, robust, side-by-side.
Mounting depth: Max 43mm.

SA-D96 Series Digital panel meter

Name: 96 Digital AC Ammeter.
Model: SA-D96A AC.
Display: 3 1/2 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V± 10% 50/60HZ.
Input signal: AC current.
Measuring range: 0-5AAC, for the current over 5A can use the AC current transformer.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity:≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Digital AC Ammeter Adjustable Type.
Model:SA-D96A AC(Adjustable).
Display: 4 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V± 10% 50/60HZ.
Input signal: AC current.
Measuring range: 0-5AAC, for the current over 5A can use the AC current transformer.
Specialty: Can be set up from 1.00A to 9000/5A.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity:≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Digital DC Ammeter.
Model:SA-D96A DC.
Display: 3 1/2 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V± 10% 50/60HZ.
Input signal: DC current.
Measuring range: 0-5A DC, the meter must be used with shunt if the current more than 5A.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity: ≤70%.
Withstand Voltage surge: Over 2000V.

SA-D96 Series Digital panel meter

Name: 96 Digital AC Voltmeter.
Model: SA-D96V AC.
Display: 3 1/2 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V± 10% 50/60HZ.
Input signal: AC voltage.
Measuring range: 0-600V AC, for the voltage over 600V can use voltage transformer.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity:≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Digital DC Voltmeter.
Model:SA-D96V DC.
Display: 3 1/2 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V± 10% 50/60HZ.
Input signal: DC voltage.
Measuring range: 0-600V DC.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity:≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Digital Frequency Meter.
Model: SA-D96 Hz.
Display: 4 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V± 10% 50/60HZ.
Input signal: AC 0-50V or 50-500V.
Measuring range: 1.0-999.9HZ.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity:≤70%.
Withstand Voltage surge: Over 2000V.

SA-D96 Series Digital panel meter

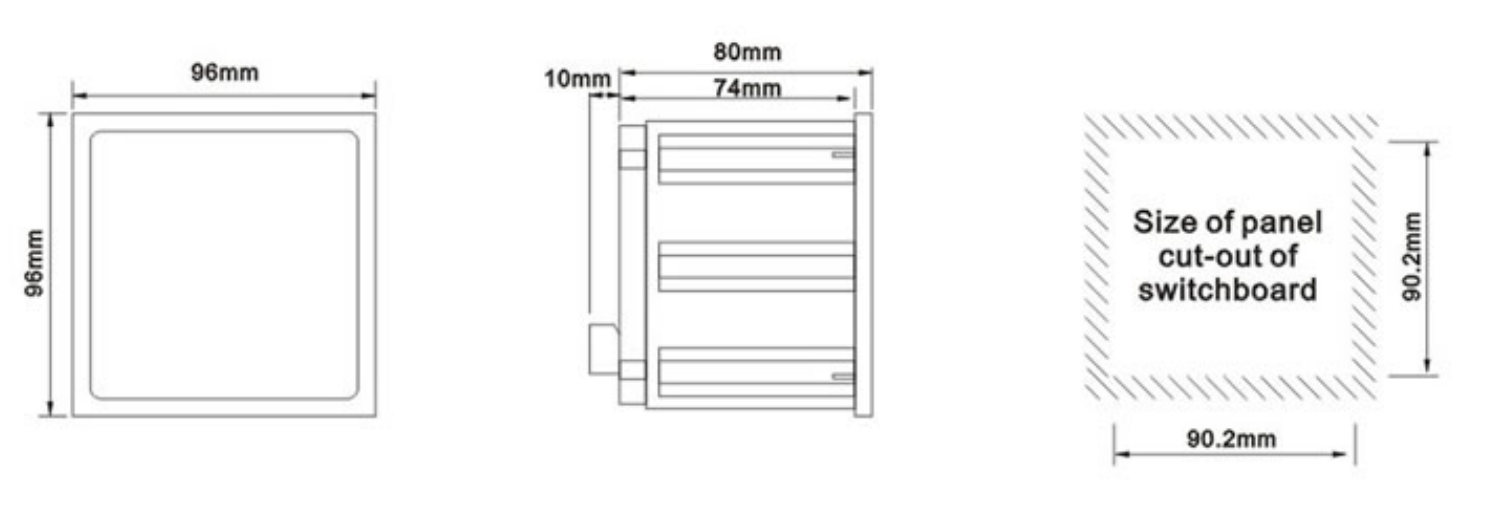
Name: 96 Digital Power Factor Meter.
Model:SA-D96 COSϕ.
Display: 3 digits LED display.
Accuracy: 1.0% ± 2 digits.
Auxiliary power: 3 Phases AC 110V ± 10% 50/60HZ or 380V± 10% 50/60HZ.
Input signal: 3 Phases AC 110V ± 10% 50/60HZ or 380V± 10% 50/60HZ, and AC 0-1A or 0-5A.
Measuring range: 0.4cap-0.99-0.4ind.
Consumption: <3VA.
Operating Environment: Temperature 0℃~40℃ humidity:≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Digital Single Phase Power Panel Meter, 96 Digital Three Phase Power Panel Meter.
Model: SA-D96 W 1P, SA-D96 W 3P.
Display: 3 1/2 digits LED display.
Accuracy: 1.0% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V ± 10% 50/60HZ.
Input singal: AC current 0-1A or 0-5A, It must be connected by suitable AC current transformers. if the current more than 5A.
AC voltage 110V or 220V, AC voltage 220V or 380V.
Measuring range display: Max 1999.
Power consumption: <3VA.
Operating environment: Temperature 0℃~40℃, relative humidity: ≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Three Sets Digital AC Panel Ammeter.
Model: SA-D96 AC A(3 sets).
Display: 4 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V ± 10% 50/60HZ.
Input singal: AC current 0-1A or 0-5A, It must be connected by suitable AC current transformers if the current more than 5A.
Measuring range display: It is selectable from 1.00 to 9000.
Power consumption: <3VA.
Operating environment: Temperature 0℃~40℃, relative humidity: ≤70%.
Withstand Voltage surge: Over 2000V.

SA-D96 Series Digital panel meter

Name: 96 Three Sets Digital AC Panel Voltmeter.
Model: SA-D96 AC V(3 sets).
Display: 4 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V ± 10% 50/60HZ.
Input singal: AC voltage 0-600V, It must be connected by suitable potential transformers if the voltage more than 600V.
Measuring range display: It is selectable from 1.00 to 9000.
Power consumption: <3VA.
Operating environment: Temperature 0℃~40℃, relative humidity: ≤70%.
Withstand Voltage surge: Over 2000V.

Name: 96 Three Sets Digital AC Panel Meter.
Model: SA-D96 AC V-A-Hz.
Display: 4 digits LED display.
Accuracy: 0.5% ± 2 digits.
Auxiliary power: AC 110V ± 10% 50/60HZ or 220V ± 10% 50/60HZ.
Input singal: AC voltage 0-600V, It must be connected by a suitable potential transformer if the voltage more than 600V.
AC current 0-1A or 0-5A, It must be connected by a suitable AC current transformer if the current more than 5A.
Frequency 0-999.9Hz.
Measuring range display: It is selectable from 1.00 to 9000 for the AC voltage.
It is selectable from 1.00 to 9000 for the AC current.
Frequency 0-999.9Hz.
Power consumption: <3VA.
Operating environment: Temperature 0℃~40℃, relative humidity: ≤70%.
Withstand Voltage surge: Over 2000V.