

Moving Coil Instruments

Active Power Meter, SD Series



Model Nos. : SD-S96-AW AC **kW, SD-S80-AW AC **kW,
SD-S72-AW AC **kW, SD-S48-AW AC **kW



Accuracy class: 1.5; for SD-W4: 2.5

Power specification:

100W, 200W, 300W, 500W, 600W, 1KW, 3KW, 5KW,
10KW, 15KW, 20KW, 30KW, 50KW, 60KW, 75KW, 80KW,
100KW, 120KW...5MW.

Transformation ratio:

The meters should be used with a current transformer of which primary current is higher than 15A and external secondary current 1A or 5A.

Voltage specification:

The meters are used for:

- low voltage such as 100V 110V 220V 380V 415V 440V.
- medium voltage such as 1KV-35KV,

They should be used with a voltage transformer of which external secondary voltage is 100V.

Product performance: All the meters are equipped with pure white silk-screen printing dial scale. The movement is the one universally used in magneto-electrical meters. The case is made of ordinary ABS plastics or flame retardant ABS plastics, of which the resistant temperature can be up to 85°C. The base is made of PC plastics or flame retardant PC plastics, of which the resistant temperature can be up to 120°C. The resistant voltage is higher than 2000V. This kind of meter, with its high-strength plastics grip-piece, is easy to install by screwing down the nut so that the meter has high stability.

Measurement features: Each pointer power meter consists of a magneto-electrical meter and related power converters, mainly used for meters of active power measurement in single and three-phase AC transmission circuits.

The advantages are simple structure, convenient measurement, as well as resistance to temperature and external magnetic fields. When power signals are converted into DC signals by the converters, the measurement principles are the same as that of magneto-electrical meters.

Technical data and approvals

Standards: EUTRONIKS meters comply with the standard GB7676-1998(idt IEC51-1997) and the standard IEC 1010-1(1990) Am2(1992),Am3(1995).All cases conform to the standard IEC-473. EUTRONIKS products have both CE and CAT III/600V approval.

Zero adjustment: All pointer type instruments have zero adjustments from the front.

Working Temperature: All instruments operate trouble-free at temperatures ranging from -25°C to +40°C
Temperature range for storage: -40°C to +70°C.

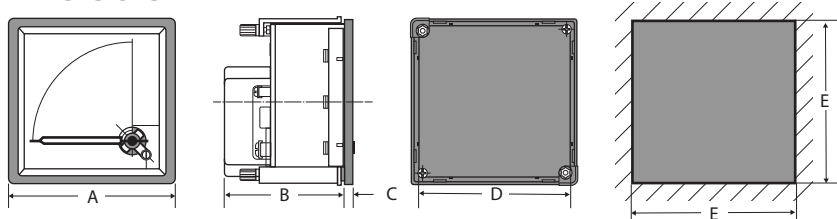
Temperature influence: An ambient temperature of +23°C is the reference temperature .The range of temperature influence is from 13-23°C to 23-33°C, unless otherwise specified in the class. The range of influence may be varied.

EUTRONIKS moving-coil products have core-magnet movements.

Mounting Angle: The instruments are calibrated for vertical mounting, unless other positions such as horizontal or inclined at any specified angle to the horizon can be provided upon request (in this case, specify angle of inclination, please). The accuracy class refers to the specified mounting angle only.

Safety warning: The user shall be made aware that, if the meter is used in a manner not specified by the manufacturer, the protection provided by the meter may be impaired.

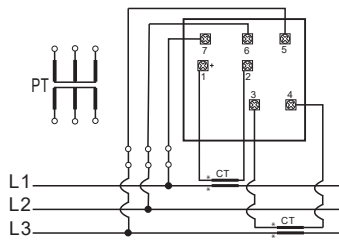
Dimensions



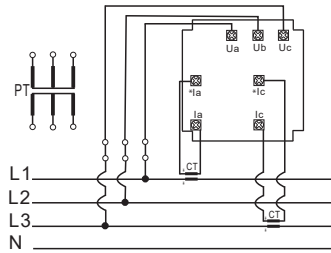
| Model | A | B | C | D | E |
|-------|----|----|-----|------|----|
| SD 96 | 96 | 74 | 5.5 | 89.5 | 92 |
| SD 72 | 72 | 74 | 5.5 | 66.2 | 68 |

Moving Iron Instruments

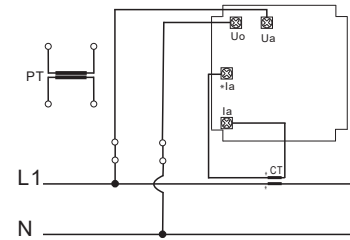
Connections



Pointer three-phase three-wire unbalanced load active power meter SD-BW96kW



Pointer three-phase three-wire unbalanced load active power meter SD-GBW96kW



mono-phase active power meter SD-GAW96kW

| Items | | Parameters | | |
|------------------------------------|---|---|---|----------|
| Implementation standards | | GB7676-98, IEC 1010-1(1990) | | |
| Bottom material (table bottom) | | flame retardant requirements for ordinary | | |
| Shell material (middle frame) | | ABS flame retardant is not required | | |
| Protective cover material | | Polyethylene | | |
| Movement material | | Flame retardant PBT | | |
| Meter working temperature | | -25°C to 4°C | | |
| Shock, vibration | | 3M2 | | |
| Protection class | | IP40 | | |
| Voltage insulation withstand limit | | 3000V / min | | |
| Sign color | | Blue and white | | |
| Glass panel | | Ordinary float glass | | |
| Installation method | | Nut clamp mounting | | |
| Type | Product Description | Input range | Measuring Range | Accuracy |
| SD-S96-AW AC **kW | Single phase active power meter | Current: X/1A, X/5A Voltage: 100V,110V, 220V,380V, 415V,440V | 100W, 200W, 300W, 500W, 600W, 1KW, 3KW, 5KW, 10KW, 15KW, 20KW, 30KW, 50KW, 60KW, 75KW, 80KW, 100KW, 120KW ... 5MW | 1.5 |
| SD-S80-AW AC **kW | Three phase-three wire unbalanced load active power meter | | | |
| SD-S72-AW AC **kW | Three phase-three wire balanced load active power meter | | | |
| SD-S48-AW AC **kW | Three phase-four wire unbalanced load active power meter | | | 2.5 |

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