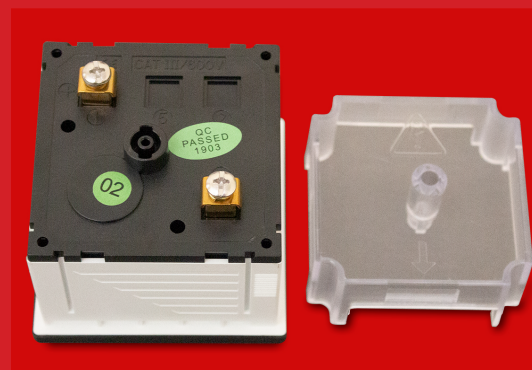


# Moving Iron Instruments

## AC METER, SD SERIES



Model : SD-96-TV , SD-72-TV (AC Voltmeters)



**Specification of voltmeters for through voltage :** 30V 50V 75V 100V 120V 150V 200V 250V 300V 400V 450V 500V 600V

**Specification of voltmeters for transformation ratio:** The meters should be used with a voltage transformer of which primary voltage is 400V 450V 500V 600V 1000V 1500V 2000V 3000V 5000V...450KV and external secondary voltage 100V.

**Overload rate of voltmeters:** (i) non-overload (ii) 1.2 times

### 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.

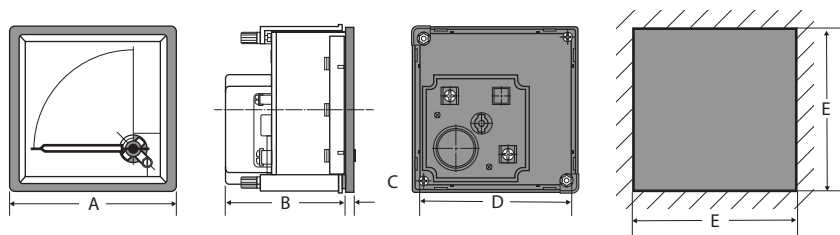
**EUTRONIKS** moving-coil products have core-magnet movements.

**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.

**Insulation test:** The insulation test is carried out at a voltage of 2000 Volts, 50HZ 1 min and applies for instruments with the full scale deflection up to 650V.

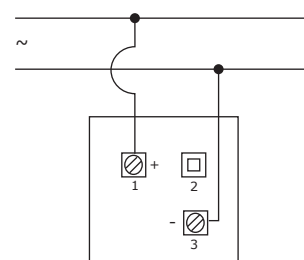
**Safety warning:** The user shall be made aware that, if the meter is used in a manner not specified by the manufacturer, the protection provided by the meter may be impaired.

### Dimensions



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

### Connections



# Moving Iron Instruments

| 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 40 °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                               | Input range           | Overload                                     | Accuracy | Frequency |
| SD-96-T AC A<br>SD-72-T AC A       | X/1A, X/5A 100mA -50A | 1 time,<br>1.2 times,<br>2 times,<br>5 times | 1.5      | 50Hz,60Hz |
|                                    | 60A -100A             |  |          |           |
| SD-96-T AC V<br>SD-72-T AC V       | 30V -600V X/100V      | Without overload                             | 1.5      |           |