

Moving Iron Meters

Moving iron meters are suitable for the measurement of true rms AC current or voltage. All moving iron meters have interchangeable scale plates. Scales are non-linear and are calibrated down to 20% of full scale. Ammeters are available with a 2x overload as standard or a 6x overload for monitoring motor start up currents. Voltmeters are also available with scales for high voltage measurement via voltage transformers. All moving iron meters are calibrated for operation at 50/60Hz but calibration at 00Hz is available upon request. Moving iron meters may be used to measure DC at reduced accuracy.



2、 General Technical Requirements

project		technical requirement	Reference standards	notes
Basic error		1.5 or 2.5	GB/T 7676.2-2017	
Reference value		Upper limit of measurement range	GB/T 7676.2-2017	
response time		≤ 4s	GB/T 7676.1-2017	
Overshoot		≤ 15% scale length	GB/T 7676.1-2017	
Installation location		Vertical installation	DIN 16257	Can customize other installation locations
measuring range		Refer to sections four and five		
working frequency		45-65Hz or 400Hz		
IP class	Front	IP40	GB 4208-2008	The front panel can be customized: IP52, IP54, IP56, IP65
	other	IP20		
Contin	current	120% upper limit of measurement range	GB/T 7676.2-2017	

uous overl oad	Voltage	120% upper limit of measurement range		
Short term overl oad	current	10 times, once, 5 seconds.	GB/T 7676.2-2017	
	Voltage	2 times, 1 , 5s。		
Reference environmental conditions	T :(23±2)°C		GB/T 7676.1-2017	
	H :(40~60)%RH			
Working environment conditions	T : -10°C ~ +55°C			
	H : < 95%RH, No condensation.			
Storage environment conditions	T : -25°C ~ +70°C			
	H : < 95%RH, No condensation			
impact	15g, 11ms		GB/T 7676.1-2017	

item	Technical requirement	Reference standard
Materials		
Vibration	2Hz to 13.2Hz: Displacement amplitude ±1mm 13.2Hz to 100Hz: acceleration Degree amplitude ±7m/s2	GB/T 7676.1-2017

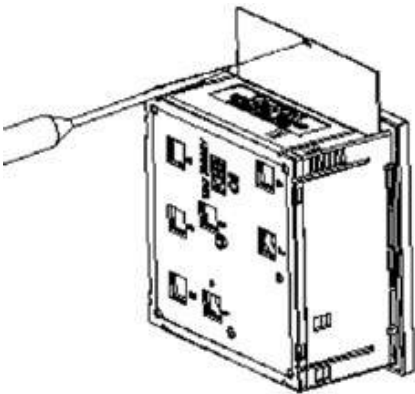
3. Safety requirements

SIZE	Safety requirement
72,96	CAT III 300V, pollution level: 2

4. Specific technical parameters:
1, square meter

Product name	Model	Measuring range	Accuracy	Consumption
90° electromagnetic system voltmeter	72-T-V AC96-T-V	30V~600V	1.5	2~4VA
		PT: /100V,/110V		
		PT: /100V,/110V		

5. square instrument dial replacement instructions



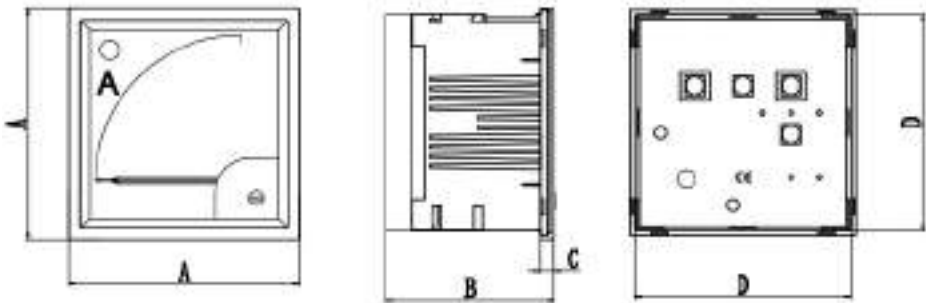
6. Installation method

6.1 square

Model	Installation
SAM-72, SAM-96,SVM-96,SVM-72	clamps

7.Outline and mounting dimensions

7.1 square



Dimension: mm

⚡ A.C. ANALOG METERS, 90°,X/1A, X/5 A				
SERIES	CODE	PRODUCT	SIZE	SCALE
	SAM 72	AMPEREMETER	72x72 mm	0-5000A
	SVM 72	VOLTMETER	72x72 mm	300V 500V 600V
	SAM 96	AMPEREMETER	96x96 mm	0-5000A
	SVM 96	VOLTMETER	96x96 mm	300V 500V 600V

8. Precautions

- 8.1. Connect cables according to the wiring diagram.
- 8.2. Before connecting cables, be sure to cut off the power supply of the measurement object.
- 8.3. Do not apply voltage beyond the voltage range, which will cause the instrument to fail.
- 8.4. Do not use in the condition of dew.
- 8.5. When using the device around the exposed or live part, do not touch the part to which the voltage is applied. In this case, you are advised to use protective tools such as rubber gloves.