

Frequency Meters

Frequency meters are suitable for the measurement of the frequency of an AC supply. All meters have a jewel and pivot movement which ensures reliability and accuracy.

All frequency meters have interchangeable scaleplates. Scales are linear and are calibrated from 45 to 65Hz with a suppressed zero. Frequency meters with dual scales (Hz & rpm) are available to display generator speed. High frequency (360-440Hz) meters and dual voltage input (110V & 230V) frequency meters are also available.



2、 General Technical Requirements

project	technical requirement	Reference standards	notes
Basic error	Pointer type:1.5 or 2.5 Reed type:0.5 or 1.5	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		
Continuous overload	current	120% upper limit of measurement range	GB/T 7676.2-2017	
	Voltage	120% upper limit of measurement range		
Short term overload	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℃ ~+70℃		
	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

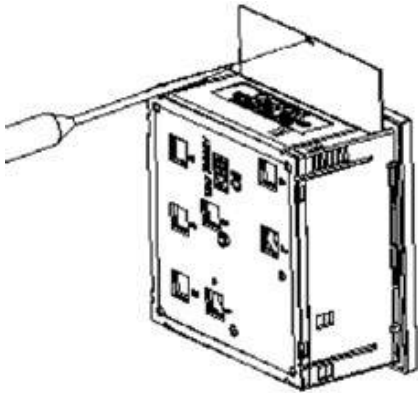
SIZE	Safety requirement
72,96	CAT III 300V, pollution level: 2

4. Specific technical parameters:
1, square meter

Product Name	Model	measuring range	Accuracy	Consumption
90 ° pointer frequency meter	48-HZ	45HZ-55HZ 55HZ-65HZ 45HZ-65HZ	1.5/2.5	3VA≥
		Voltage range 57.7V-500V		
	72-HZ 96-HZ	45HZ-55HZ 55HZ-65HZ 45HZ-65HZ 300HZ-600HZ	1.5	
		Voltage range 57.7V-500V		
240 ° pointer frequency meter	72-GHZ 96-GHZ	45HZ-55HZ 55HZ-65HZ 45HZ-65HZ	1.5	
		Voltage range 57.7V-500V	1.5	

Vibrating spring frequency meter	72-1F 1 reed	45~55Hz; 47~53Hz; 55~65Hz; 57~63Hz	0.5/1.5	5VA≥
	96-1F 1 reed			
	72-2F 2 reeds	Voltage range 57.7V-500V		
	96-2F 2 reeds			

5. square instrument dial replacement instructions



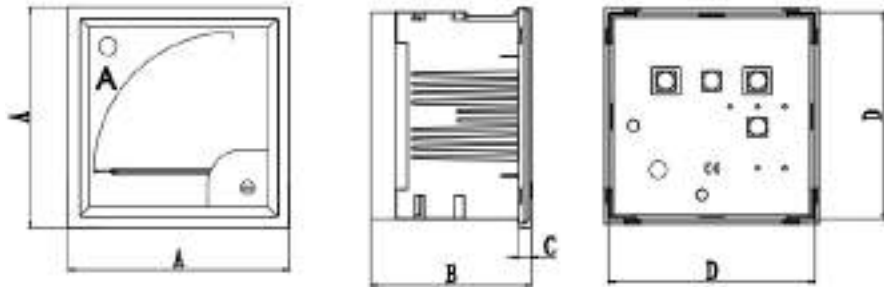
6. Installation method

6.1 square

Model	Installation
72, 96	clamps

7.Outline and mounting dimensions

7.1 square



Dimension: mm

Model	A(mm)	B(mm)	c(mm)	E(mm)
SFM-96 ,SFM-96-240	96	71	6	92
SFM-72,SFM-72-240	72	71	6	68

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.