Maximum Demand Indicator

The thermal/time characteristics of MDI meters monitor the most economic use of cable, fuse-gear and transformers. The directly heated bi-metal element indicates mean RMS current over 8, 15, or 20 minutes, and a red slave pointer shows the highest value reached. The reset knob is wire sealable. Scales are calibrated to match the CT primary plus 20% overload. End values are selected from: 1.2, 1.8, 2.4, 3, 3.6, 4.8, 6, 7.2, 9 amps and their multiples of 10 and 100.

2、 General Technical Requirements

project	technical requirement	Reference standards	notes
Basic error	Bimetallic class 3.0 Instant class 1.5	GB/T22265-2008	

Reference value		Upper limit of measurement range	GB/T22265-2008	
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		
IP class	Front	IP20	GB 4208-2008	
	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)℃	GB/T 7676.1-2017	
		H :(40~60)%RH		

Working environment conditions	T:-10℃~+55℃		
	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

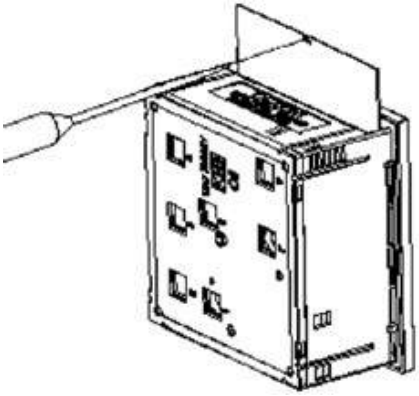
4. Specific technical parameters:

1, square meter

operation mode	name	model	Specifications	Accuracy level	Action time	Consumption(VA)

Direct heating type	Single structure demand scale	M96A	1A or 5A	3.0	8 minutes or 15 minutes	≤2VA
		M72A	1A or 5A	3.0	8 minutes or 15 minutes	≤2VA
		M48A	1A or 5A	3.0	8 minutes or 15 minutes	≤2VA
Direct heating type	Dual structure demand scale	2M96 A	1A or 5A	Bimetallic class 3.0 Instant class 1.5	8 minutes or 15 minutes	≤2.5VA
		2M72 A	1A or 5A	Bimetallic class 3.0 Instant class 1.5	8 minutes or 15 minutes	≤2.5VA

5. square instrument dial replacement instructions



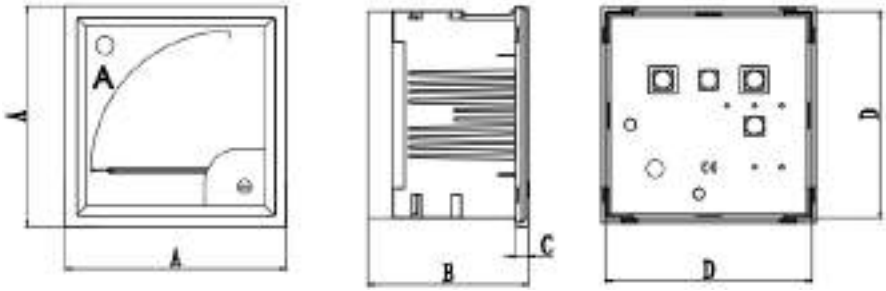
6. Installation method

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)
SAM-96-MDI	96	71	6	92
SAM-72-MDI	*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.