

# Moving Coil Rectifier Volt & Amp Meter with Maximum Pointer Din panel, Analog meter



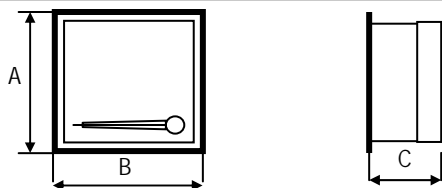
## Application

Square panel meters for alternating current system. All panel meters are direct indication of measuring input. They are suitable to use on the distribution panel, control panel, switchboard panel, power plant, mimic board, machines and others.

The instruments has designed for industrial applications which required precise, reliable and robust instruments for the display range and indicating. Each measuring instrument is suited for one of the following measuring tasks:

- AC voltage 0-150V, 0-300V, 0-500V, 0-600V or request.
- AC voltage PT connection 100, 110, 115, 120V or request.
- AC current direct 1, 2.5, 5, 10, 20A.
- AC CT connection / 1 A or / 5 A.
- more detail see ordering information.

## Dimension



Size	A	B	C
48x48	48	48	65
72x72	72	72	65
96x96	96	96	65

## Order Information

### 1) Model

MM48	Dimension	48x48 mm.	Scale	90 Degree
MM72	Dimension	72x72 mm.	Scale	90 Degree
MM96	Dimension	96x96 mm.	Scale	90 Degree
MM48-240	Dimension	48x48 mm.	Scale	240 Degree
MM72-240	Dimension	72x72 mm.	Scale	240 Degree
MM96-240	Dimension	96x96 mm.	Scale	240 Degree

### 2) Input Type

AC Volt 0-1, 0-5, 0-10, 0-15, 0-20V & customize  
AC Direct 1, 2.5, 5, 10, 15, 20A  
AC CT Connection  $\frac{1}{2}$  / 1A,  $\frac{1}{2}$  / 5A

### 3) Range ( please specify when ordering)

Factory standard range or specify when ordering or consult.

### 4) Class

Class 1.5 is standard or others by request

### Example

1) Amp Meter, Model MM96, Input CT 500/5A class 1.5, Scale 90 Degree. Range 0-500 A

- Front Dimension 96x96mm Or 72x72mm. Or 48x48mm.
- DIN43700, DIN43802, DIN43718, IEC1010, IEC473, IEC51, BS89
- Polycarbonate, self extinguishing and drip-proof per UL94V-0
- Rugged housing-non combustible, plastic-heat resistance.
- Accuracy  $\pm 1.5\%$ .
- 90 Degree or 240 Degree.

## Characteristic

### Display

Scale Graduation Coarse-fine  
Pointer Beam pointer with knife-edge comply with DIN 43802, parts 2 through 4.

### Mechanical Design

Housing Material Polycarbonate, self-extinguishing and drip-proof per UL94V-0  
Mounting Fasteners Standard type screw clamp  
Scale Interchangeable scales  
Scales may only be replaced under voltage-free conditions !

### Replaceable

Bezels and glass face plates, May only be replaced under voltage-free conditions!

### Terminals

M4 screw terminals with self-lifting terminal clips. Screws can be turned with standard screw drivers tool.

Contact Protection Finger-safe full cover included  
Accuracy 1.5 or request.

### Consumption

Ammeter 0.7VA for CT/1A.  
Ammeter 1.2VA for CT/5A.  
Volt meter 3.3VA for 500V.  
Volt meter 2.0VA for PT Rated.

### Ambient Conditions

Operating Temperature - 20 ... + 55 °C  
Storage Temperature - 40 ... + 70 °C  
Relative Humidity max. 95%  
Frequency 45...65Hz.

### Compliance with Regulations

Protection IP 52 front panel, Terminal IP20  
Protection Class 1

Size	48x48	72x72	96x96
2 Pointer	MM48	MM72	MM96
Scale Length	37mm.	63mm.	97mm.
Weight	0.30 Kg.	0.45 Kg.	0.55 Kg.
Panel Cutout	43x43 mm.	68x68 mm.	92x92 mm.
Max Voltage	300 V	600 V	600 V
Test Voltage	2.2 kV	3.25 kV	3.25 kV

## Wiring Diagram

