

Moving Iron AC Amp Meter with Max Demand or Max Demand + Relay output Din panel, Analog meter



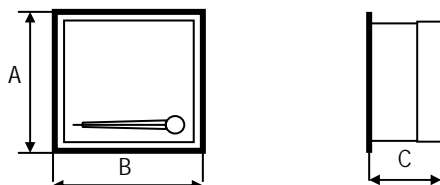
Application

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:

- CT connection /1A or /5A with 20% over scale as a standard.
- With relays output for demand control or energy managements. The relays perform with time delay 1second approximately fixed.
- Alarm trip point working range 20-100% of range $\pm 1\%$ added to the MDI accuracy.
- Free contact output as single pole change over with relay rating AC 250V 5A non inductive load or 24V DC 2A resistive load.
- 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

MA48 Dimension 48x48 mm. Scale 90 Degree
 MA72 Dimension 72x72 mm. Scale 90 Degree
 MA96 Dimension 96x96 mm. Scale 90 Degree
 ME72 Dimension 72x72 mm. Scale 90 Degree
 ME96 Dimension 96x96 mm. Scale 90 Degree
 MR72 Dimension 72x72 mm. with relays output
 MR96 Dimension 96x96 mm. with relays output
 - please note for ME and MR range not available for 48 mm.

2) Input Type

AC Amp Meter with max demand
 CT Connection $\frac{2}{1A}$, $\frac{2}{5A}$

$\frac{2}{}$ please specify when ordering

3) Range

Factory standard range or specify when ordering or consult.

4) Class

AC Amp Meter with max demand Class 3.0 is standard

5) Aux Supply

Relay output available with MR72, MR96 only
 220V ac is standard others by request

Example

1) MR96 AC Am Max Demand Meter Input CT1000/5A, with relay class 3.0, Scale 90 Degree, Aux 230V ac.

- 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 $\pm 3.0\%$.
- Ammeter with over scale 120%
- Relays output for Demand Control or Energy Managements.

Characteristic

Display

Scale Graduation
 Pointer

Coarse-fine

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
 Scale

Standard type screw clamp
 Interchangeable scales and only 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 turned with standard screw drivers tool.

Contact Protection
 Accuracy

Finger-safe full cover included
 3.0%.

Consumption

Ammeter
 Ammeter

1.3VA for CT/1A.

1.8VA for CT/5A.

Ambient Conditions

Operating Temperature
 Storage Temperature
 Relative Humidity
 Frequency

- 20 ... + 55 °C

- 40 ... + 70 °C

max. 95%

45...65Hz.

Compliance with Regulations

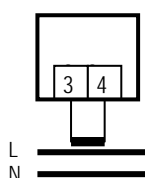
Protection
 Protection

IP 52 front panel, Terminal IP20
 Class 1

Size	48x48	72x72	96x96
2 Pointer	MA48	MA72	MA96
3 Pointer		ME72	ME96
2 Pointer + Relays		MR72	MR96
Scale Length	37mm.	63mm.	97mm.
Weight	0.20 Kg.	0.23 Kg. 0.28 Kg. 0.53 Kg.	0.35 Kg. 0.40 Kg. 0.65 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

CT Connection



CT Connection with relays output

