

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



- Dimension 144x144, 120x120, 96x96, 80x80, 72x72, 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  $\pm 1.5\%$  Or class1.0 Or customize.
- 90 Degree and 240 Degree.
- CT / 1 A. or CT / 5 A.

## 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.

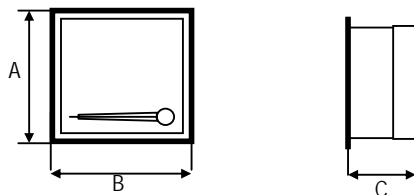
The instruments has designed for industrial applications which required precise, reliable and robust instruments for the display range and indicating. Each measuring instrument is suited for one of the following measuring tasks:

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

## Description

Analog Panel Meter with Moving-Coil Movement and Spring-Loaded Pivot Bearings. Adjustments and balancing are especially easy for these rugged,compact instruments. Complete balancing of the model can be accomplished alone from factory.The pre-selection of measuring ranges is accomplished with clearly arranged numbering on ordering detail of the instruments. Zeroing Knop at the front meter's panel allow for precision zero adjustments. Measuring instruments for the remaining ranges are balanced to a standard value prior to shipment. Precision balancing can be performed at the factory upon request.

## Dimension



Size	A	B	C
48x48	48	48	65
72x72	72	72	65
96x96	96	96	65
144x144	144	144	65
80x80	80	80	65
120x120	120	120	65

## 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, 1.0, 0.5 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 (mm.)	48x48	72x72	96x96	144x144	80x80	120x120
90 Deg.	RE48	RE72	RE96	RE144	RE80	RE120
240 Deg.	RE 48-240	RE72-240	RE96-240	RE144-240	RE80-240	RE120-240
Scale Length	37mm.	63mm.	97mm.	120mm.	72mm.	108mm.
	73mm.	113mm.	151mm.	225mm.	136mm.	196mm.
Weight	0.20 Kg.	0.25 Kg.	0.40 Kg.	0.55 Kg.	0.30 Kg.	0.45 Kg.
	0.25 Kg.	0.30 Kg.	0.45 Kg.	0.65 Kg.	0.35 Kg.	0.55 Kg.
Cutout (mm.)	43x43	68x68	92x92	138x138	74x74	112x112
Max Voltage	300 V	600 V	600 V	600 V	600 V	600 V
Test Voltage	2.2 kV	3.25 kV	3.25 kV	3.25 kV	3.25 kV	3.25 kV

**Ordering Information.**

**1) Model**

RE48	Dimension	48x48 mm.	Scale	90 Degree
RE72	Dimension	72x72 mm.	Scale	90 Degree
RE96	Dimension	96x96 mm.	Scale	90 Degree
RE144	Dimension	144x144 mm.	Scale	90 Degree
RE80	Dimension	80x80 mm.	Scale	90 Degree
RE120	Dimension	120x120 mm.	Scale	90 Degree
RE48-240	Dimension	48x48 mm.	Scale	240 Degree
RE72-240	Dimension	72x72 mm.	Scale	240 Degree
RE96-240	Dimension	96x96 mm.	Scale	240 Degree
RE144-240	Dimension	144x144 mm.	Scale	240 Degree
RE80-240	Dimension	80x80 mm.	Scale	240 Degree
RE120-240	Dimension	120x120 mm.	Scale	240 Degree

**2) Input Type**

AC Volt Meter

0-150V, 0-300V, 0-500V, 0-600V & customize

PT Rated  $\frac{?}{100}$ ,  $\frac{?}{110}$ ,  $\frac{?}{115}$ ,  $\frac{?}{120V}$  & customize

? please specify when ordering

AC Amp Meter

Direct 1, 1, 1.5, 3, 5, 7.5, 10, 15, 20A

CT Connection  $\frac{?}{1A}$ ,  $\frac{?}{5A}$

? please specify when ordering

**3) Range**

AC Volt Meter

AC Amp Meter

Factory standard range or specify when ordering or consult.

For Amp Meter no over scale is standard from factory

**4) Class**

AC Volt Meter

AC Amp Meter

Class 1.5 is standard or others by request

**Example**

1) RE96 AC Volt Meter Input PT115kV/115V, Range 0-130kV\*  
class 1.5, Scale 90 Degree.

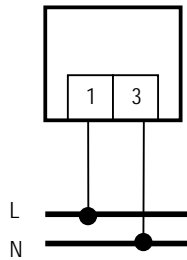
2) RE96-240 AC Am Meter Input CT100/5A, Range 0-100A\*  
class 1.5, Scale 240 Degree.

\* factory standard range or specify when ordering or consult.

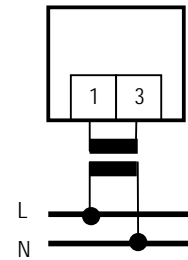
**Wiring Diagram.**

**AC Volt Meter.**

**Direct Connection**

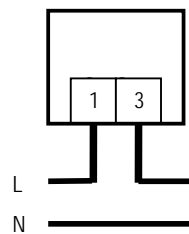


**PT Connection**



**AC Current Meter.**

**Direct Connection**



**CT Connection**

