



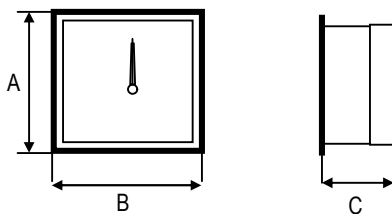
Application

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. Used for comparing phase from two source or more, in single phase and three phase network to parallel system. Each measuring instrument is suited for one of the following measuring tasks:

- AC voltage direct connection 110, 240, 380, 440V or request.
- AC voltage PT connection 100, 110, 115, 120 v ac or request.
- Working frequency 50 or 60 Hz.
- 1Phase and 3Phase system.
- more detail see ordering information.

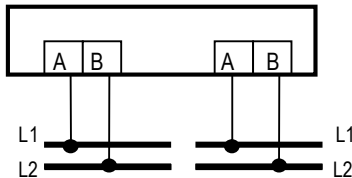
Dimension



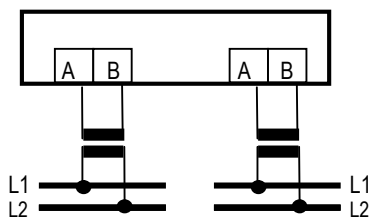
Size	A	B	C
96x96	96	96	65
144x144	144	144	65

Wiring Diagram.

Direct Connection



PT Connection



- Front Dimension 96x96mm Or 144X144mm.
- DIN43700, DIN43802, DIN43718, IEC1010, IEC473, IEC51, BS89
- Polycarbonate, self extinguishing and drip-proof per UL94V-0
- Rugged housing-non combustible, plastic-heat resistance.
- Accuracy $\pm 1.5\%$
- 360 Degree.
- 1Phase or 3Phase system.

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 %

Consumption

Voltage Path 3.3VA for 500V.
Voltage Path 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	96x96	144x144
Type	SYN96	SYN144
Scale Length	360 Deg.	360 Deg.
Weight	0.75 Ka.	0.95 Ka.
Panel Cutout	92x92 mm.	138x138 mm.
Max Voltage	600 V	600 V
Test Voltage	3.25 kV	3.25 kV

Ordering Information.

1) Model

SYN96 Dimension 96x96mm.

2) Input Type

100V, 230V, 380V & customize
PT Rated 2/ 100, 2/ 110, 2/ 115, 2/ 120V & customize

3) Operating Frequency

50Hz. Or 60Hz. Please specify when ordering.

Example

1) SYN96 Synchroscope Meter Input PT115kV/115V, 50Hz.