



**Features:**

- ▶ Knife edge pointer
- ▶ Glass filled polycarbonate housing
- ▶ Easily replicable glass and bezel
- ▶ Easy installation with swivel screws



The moving coil PF meters used to monitor changing power factor condition on balanced load & unbalance system. The power factor is indirectly determined by measuring the phase angle  $\phi$  between current & voltage. However the indicators are calibrated in values of  $\cos$  of the angle  $\phi$ .

**Specifications**

**Scale and Pointer**

Pointer	Knife - edge pointer
Pointer deflection	0 to 90°
Scale characteristics	Non - Linear
Scale division	Coarse - fine
Pointer length	VIPS27   VIPS96 34mm   54mm
Scale Interchangeability	Interchangeable
<b>Overload Capacity</b>	
Continuously	1.2 times rated voltage / current
Short duration	2 times voltage, 5 sec max. overload 10 times rated current, 5 sec max. overload

**Mechanical Specifications**

Case details	Moulded square case suitable for mounting in Control / Switchgear panels, Machinery consoles.
Case material	ABS
Front facia	Glass
Colour of bezel	Black
Position of use	Vertical
Panel fixing	Swivel screws
Panel thickness	≤ 25 mm
Terminals	Rectangular studs, M4 screw

**Electrical Specification**

Measured quantity	Power factor
<b>Power Consumption</b>	
Current	≤ 1.0 VA
Voltage	≤ 3.0 / 3.5 VA
Enclosure date	IP54
Rated insulation voltage	660V
Proof voltage testing	2 kV
Installation category	300 VCAT III
Insulation resistance	>50 mohm at 500 VDC

**Reference Conditions**

Accuracy class	3 (Bimetallic movement slave pointer)
Ambient temperature	20°C ± 2°
Position of use	Nominal position ±1°
Input	Rated value of current
Waveform	Sine wave
Frequency	50± 0.1%
Other conditions	IS:1248 (IEC 51/ DIN EN 60051)

**Nominal Range of Use**

Ambient Temperature	0 to 55°C
Position of use	Vertical ±5°

**Environmental Specification**

Operating temperature	0 to 55°C
Storage temperature	-25 to 65°C
Relative humidity	75% average, non-condensing
Shock resistance	15g, 11 ms
Vibration resistance	10-55-10 Hz/0.15 mm 1.5 g <sub>r</sub> at about 50 Hz.

**Measuring Ranges**

Description	Specification	
Maximum Demands Ammeter	15MIN 5A, OR 15MIN 1A	Changeable scale