



**Features:**

- ▶ Scale interchangeability
- ▶ Near linear scale
- ▶ Easy installation
- ▶ Knife edge pointer
- ▶ Easily replaceable glass and bezel
- ▶ Protection Class IP54



**Applications:**

- ▶ Switch Board
- ▶ Generating Set Panels
- ▶ Test bench

**Specifications**

**Scale and Pointer**

Pointer	Knife - edge pointer
Pointer deflection	0 to 90°
Scale characteristics	Near Linear above 10% of nominal full Scale value
Scale division	Coarse - fine
Pointer length	VIPS27   VIPS96 34mm   54mm

**Over range:**

Ammeters	2 times nominal current
Voltmeters	1.2 times nominal voltage
Scale Interchangeability	Interchangeable

**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**

Voltmeters and Ammeters ≤ 30A Rectangular studs, M4 screw

**Electrical Specification**

Measured quantity	AC voltage or current
Power consumption:	
Voltmeters	<4.5VA
Ammeters < 15A	< 0.5VA
Overload capacity	(acc. to IS: 1248 / IEC 51
Continuously	1.2 times rated voltage
Short duration	2 times rated current
1s	10 times current
Enclosure code	IP 54 case
Insulation resistance	> 50 Mohm at 500 VDC

**Reference Conditions**

Accuracy class	1.5 according to IS: 1248
Ambient temperature	23°C ± 2°
Position of use	Nominal position ±1°
Input	Rated value of measured quantity
Waveform	Sine wave, distortion factor ≤ 5 %
Frequency	45 to 65HZ
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 <sub>n</sub> , 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	
AC Ammeter	From 10A, 15A, 20A, 30A, to 3000A, 5000A	With external CT 1A or 5A
	From 0.1A, 0.5A, 1A, 5A, 10A, 25A, to 80A, 100A	AC direct connection
AC Voltmeter	From 30A, 50A, 100V to 300V, 500V, 600V	AC direct connection
	From 1KV, 2KV, 5KV, to 380KV, 450KV	With external voltage transformer