

Power Factor (cosØ) Meters

Power factor to meters are suitable for the measurement of power factor (cosØ). DIN96,72 meters are self contained whilstall smaller units are connected to a separate converter unit and calibrated as a complete unit to individual requirements. The converter unit has nger-proof termnial covers and can be remotely DIN rail mounted.

All meters have a jewel and pivot movement which ensure reliability and accuracy. The power factor meters are available in short scale (90°,240°,) only. Scales are non-linear, bi-directional and are calibrated from 0.5 lead to 0.5 lag.



2. General Technical Requirements

type	Parameters and technical indicators		
response time	90 ° or 240 °: ≤ 4 seconds		
Flame retardant grade of plastic parts			
Shell protection level	Front panel: IP40; Other: IP20		
Security level	CAT III 600V		
class of pollution	two		



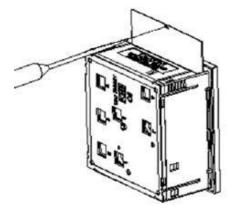
Working environment conditions	Temperature: -10 °C~55 °C Humidity: 5%~90% RH, no condensation			
Storage environment conditions	Temperature: -25 °C~70 °C Humidity: 5%~95% RH, no condensation			
Overload capacity	Continuous overload: 1.2 times rated value Short term overload: Voltage: 2 times rated value, 5 seconds Current: 10 times rated value, 5 seconds			
The measured voltage component	± 15% of rated value			
Quantity usage range	20% to 120% of rated value			

3. Specific model specifications

	Wiring method/accuracy level			angle	Struct
Model	Single phase	Three phase three wire balanced type			ural metho d
SPF-72	Class 2.5	Class 2.5		90°	Integrate d type
SPF-96	Class 2.5	Class 2.5		90°	Integrate d type
SPF-72-240	Class 2.5	Class 2.5		240°	Integrate d type
SPF-96- 240	Class 2.5	Class 2.5		240°	Integrate d type



4. square instrument dial replacement instructions



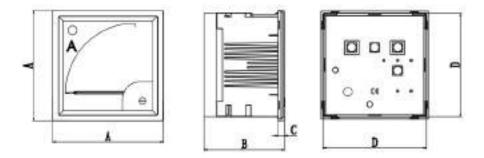
Installation method

6.1 square

Model	Installation
72, 96	clamps

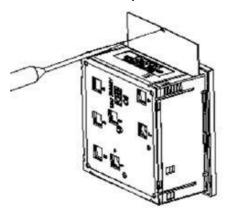
5. Outline and mounting dimensions

5.1 square





4. square instrument dial replacement instructions



Installation method

6.1 square

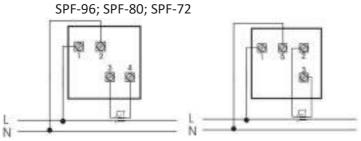
Model	Installation
72, 96	clamps

Dimension: mm

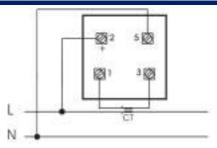
Model	A(mm)	B(mm)	c(mm)	E(mm)
96	96	71	6	92
72	72	71	6	68

6. Wiring diagram

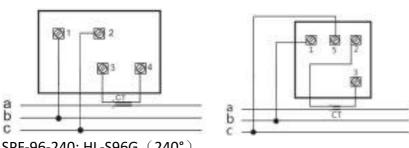
6.1 Single phase wiring method



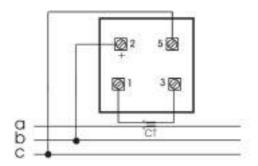




6.2 Three phase three wire wiring method SPF-96; SPF-80; SPF-72; HL-S96; HL-S72



SPF-96-240; HL-S96G (240°)



- 7. Precautions
- 7.1. Connect cables according to the wiring diagram.
- 7.2. Before connecting cables, be sure to cut off the power supply of the measurement object.
- 7.3. Do not apply voltage beyond the voltage range, which will cause the instrument to fail.
- 7.4. Do not use in the condition of dew.
- 7.5. When using the device around the exposed or live part, do not touch the part to which the voltage is applied. In this case, you are advised to use protective tools such as rubber gloves.