



Power Factor (cosØ) Meters

Models Available

- FE48PF1** DIN48 1ph/3ph4w cosØ Meter
 - FE72PF1** DIN72 1ph/3ph4w cosØ Meter
 - FE48PF3** DIN48 3ph3w cosØ Meter
 - FE72PF3** DIN72 3ph3w cosØ Meter
- (all above are complete with a converter unit)

- FE96PF1** DIN96 1ph/3ph4w cosØ Meter
 - FE96PF3** DIN96 3ph3w cosØ Meter
- (both above are self contained)

Product Features

- Power factor (cosØ) measurement
- Standard DIN square sizes
- Many options available (see page 22)

For dimensions see pages 23-24

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

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

Notes:

1. Ensure that current transformers are mounted such that K faces the supply and L faces the load.
2. Secondary windings of the current transformers should be earthed.
3. No isolation is provided between input AC voltage and DC output on converter unit.

Power Factor Meters – for measurement of power factor (cosØ)

Specification

Accuracy:

- Class 1.5 ($\pm 1.5\%$ max. error)

Input Current, I_n :

- 0-0.2A to 0-10A direct connected
- 1A or 5A CT operated

Input Voltage, U_n :

- 110, 230 or 415V (-30% to +10%)
- (50 to 600V upon request)

Frequency:

- 50/60Hz

Scale:

- 0.5 lead to 0.5 lag

Overload:

- $1.2 \times I_n$ or U_n for 2 hours
- $6 \times I_n$ for 5 seconds

Burden:

- Voltage circuit $< 2VA$ per phase
- Current circuit $< 1VA$ per phase

Response Time:

- < 1 second

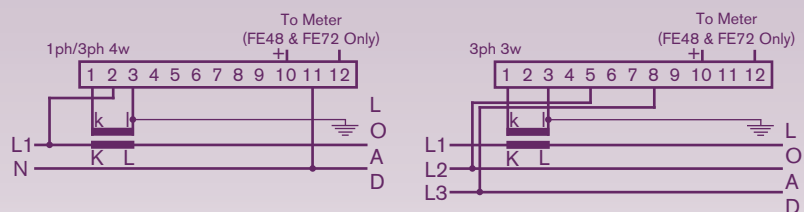
Weight:

- FE48 140g, FE72 180g, FE96 350g
- Converter unit 150g

Converter Unit Enclosure:

- 55mm wide grey ABS
- Case IP40, terminals IP20
- Fixes to 35mm DIN rail (DIN-EN 50022)

Connections



Ordering information

Code	DIN Square Size & Movement Type	Meter Type	Input
FE48PF	48 x 48mm Shortscales (90°) CosØ meter	-	-
FE72PF	72 x 72mm Shortscales (90°) CosØ meter	-	-
FE96PF	96 x 96mm Shortscales (90°) CosØ meter	-	-
1	-	Single Phase / 3 Phase 4 Wire Balanced	-
3	-	3 Phase 3 Wire Balanced	-
Specify	-	-	Voltage (L-N or L-L)
Specify	-	-	and Current
Example	FE96PF	1	230VL-N, 5A