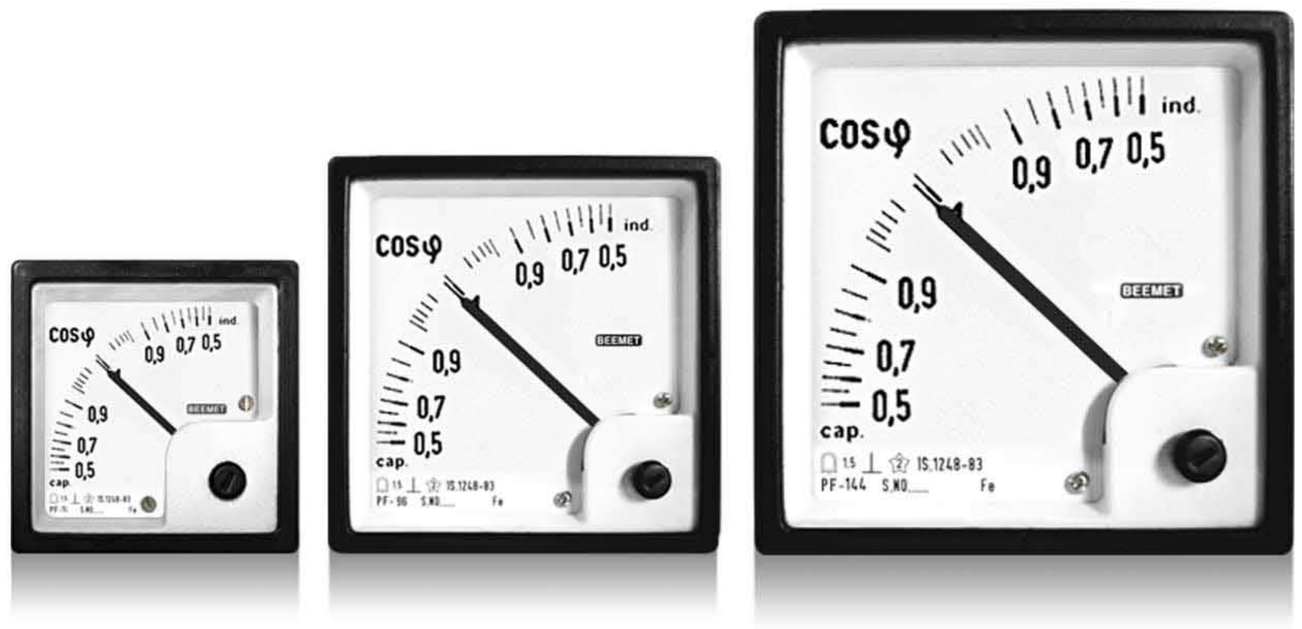
ANALOG POWER FACTOR METERS - PF-72, PF-96, PF-144

Beemet Power Factor meters are used to monitor changing power factor conditions on irreversible balanced load systems.

The moving coil indicators PF 72/96/144 and a phase angle adjuster are used to monitor changing power factor conditions on ir-reversible balanced load systems & Unbalanced System.

The power factor is indirectly determined by measuring the phase angle between current and voltage (both sinusoidal). However the indicators are calibrated in values of cos ö of the angle ö .
These meters offer several advantages in Switchboard & Generating Set panels. Number of meters can be mounted in a single Cut out(Mosaic Mounting). The Bezel, Front window glass and Dial can be easily replaced.



SALIENT FEATURES

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

GENERAL SPECIFICATIONS

SCALE AND POINTER

Pointer	Knife - edge pointer
Pointer deflection	0 ... 90°
Scale characteristics	Non - Linear
Scale division	Coarse-fine
Interchangeability	Scales are interchangeble

ELECTRICAL DATA

Measured quantity	Power Factor
Overload capacity (acc to IS	1248/ IEC 51/ DIN EN 60051)
Continuously	1.2 times rated voltage / current
Short duration	2 times rated voltage 5 Sec max overload 10 times rated current 5 Sec max overload
Accuracy class	1.5 according to IS:1248

MECHANICAL DATA

Case details	Moulded square case suitable for mounting in Control / Switchgear panels, Machinery consoles.
Case material	Glass filled polycarbonate flame retardant and drip proof
Front facia	Glass
Colour of bezel	Black
Position of use	Vertical
Panel fixing	Swivel screws.
Mounting	Stackable in a single cutout
Panel thickness	≤ 25 mm
Terminals	Hexagon studs, M4 screws and wire clamps E3 (DIN 46282)

ENVIROMENTAL CONDITION

Climatic suitability	Climate category II as per IS : 1248 (climatic class 3 according to VDE / VDI 3540)
Operating temperature	-10 ... + 550 C
Storage temperature	-25 .... + 650 C
Relative humidity	≤ 75% annual average non-condensing
Shock resistance	15g. 11ms
Vibration resistance	10-55-10 Hz/0.15 mm 1.5 g at about 50 Hz.

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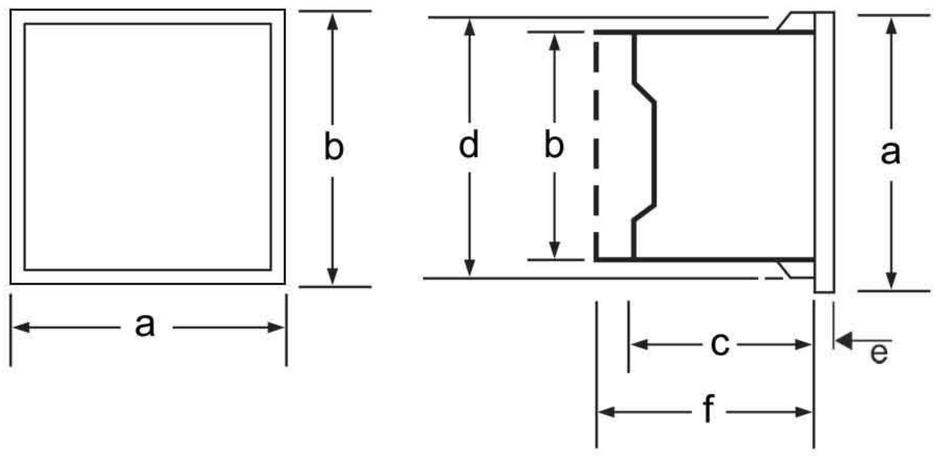
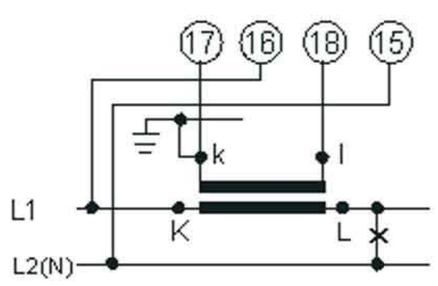
DIMENSIONS



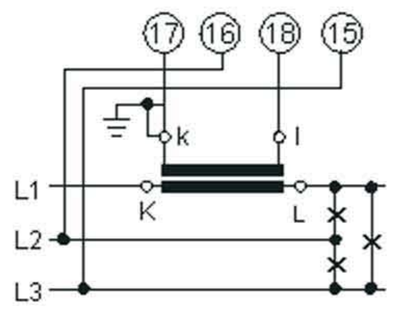
Model	Dimensions (mm)							Scale Length
	A	B	C	D	E	F	Panel Cutout	
PF-72	72	66	80	68	5.5	_	68	61
PF-96	96	90	53	92	5.5	64	92	97
PF-144	144	136	53	138	6.5	64	138	146

CONNECTION

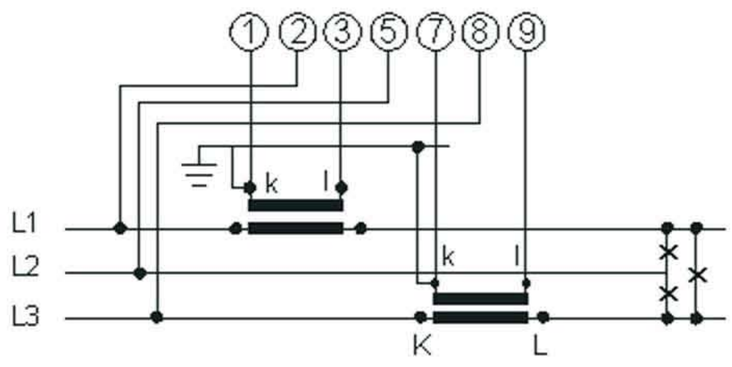
PF 96/144 Single phase



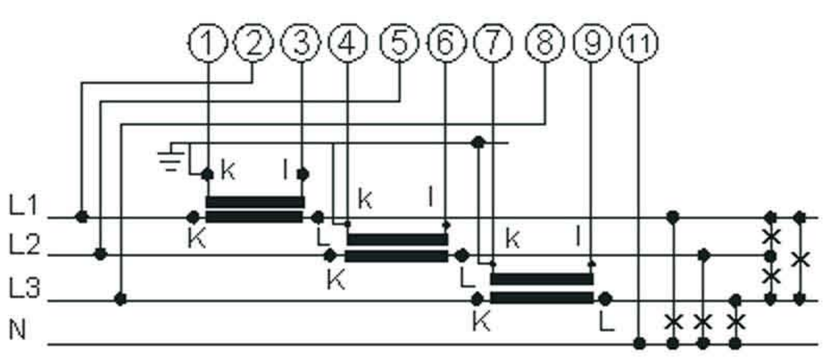
PF 72/96/144 three ph. bal. Load



PF96/144 3ph. 3W Unbal. Load



PF 96/144 3ph. 4W Unbal. Load



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