

ANALOGUE MEASURING INSTRUMENTS

EPA...n - Electronic Power Factor Instruments



- For alternating current 50-60 Hz
- Class 1.5
- Scale 240°

Description

These instruments measure the $\cos \phi$ value. Our type EPA has a moving coil meter movement that shows by an electronic circuit the phase shift between voltage and current ($\cos \phi$). Scales are available between 90° and 260° phase shift, as well as capacitive and inductive.

Standard scale execution:

- cap. 0,5-1-0,5 ind.
- cap. 0,8-1-0,3 ind.
- cap. 0,8-1-0,8 ind.

Data:

Temperature drift	Δ 0,08 % per °C.
Consumption per voltage path	approx. 3 VA
Consumption per current path	approx. 1 VA
Admissible deviation of voltage	$U = U_N \pm 15\%$
Minimal current:	$I_{\min} = I_N \times 0,2$

Notice: If $I < 0,1$ the $\cos \phi$ is outside of the measuring range.

Technical Features

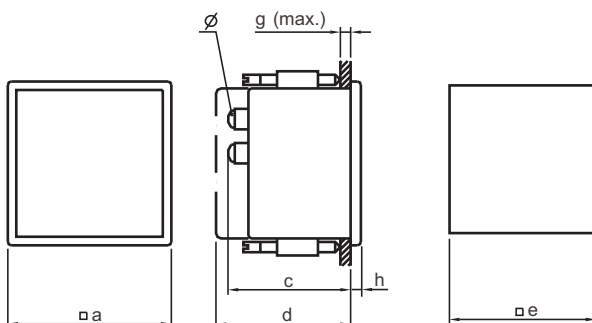
Front frame (mm)		72 x 72	96 x 96	144 x 144		
Scale length (mm)		106	142	230		
Weight (g)		550	680	800		
Voltage U (V)	Current path I (A)	Type	Type	Type		
One phase alternating current	~	EPA 72n/1	EPA 96n/1	EPA 144n/1		
		57,7 - 100 - 110 - 120	5	●	●	●
		220 - 230 240	1	●	●	●
		380 - 400	1	●	●	●
440 - 500	1	●	●	●		
Three-phase current balanced load	≅	EPA 72n/2	EPA 96n/2	EPA 144n/2		
		57,7 - 100 - 110 - 120	5	●	●	●
		220 - 230 240	1	●	●	●
		380 - 400	1	●	●	●
440 - 500	1	●	●	●		
Terminal cover		○	○	○		

● available ○ on request

Connection diagrams see page 4/19.

Housing dimensions power factor meter

Dimensions in mm							
Type	a	c	d	e	g	h	∅
EPA 72n/1 -/2	72	106	132	68 ^{+0,7}	40	4,6	M4
EPA 96n/1 -/2	96	106	132	92 ^{+0,8}	40	5	M4
EPA 144n/1 -/2	144	53	63	138 ⁺¹	40	5,5	M4



Backside terminal cover for protection according to VBG 4

(Please indicate when ordering.)