CE

4500

How one wished, one could measure 3φ power with a single clamp meter without any manual calculations; well now it is a reality. MECO 4500 Clamp-On Power Meter does this with absolute ease and reliability. Be it 3φ4W, 3φ3W, balanced or unbalanced system. Needless to add, it also works for 1φ2W and 1φ3W systems. Handy and ideal for on-site measurement, energy audit, data recording, Q.C. testing and maintenance of the entire plant.

Features

- 3φ4 W, 3φ3 W, 3φBalanced, 1φ2 W, 1φ3 W
- AC + DC 2000 KW (3φ), 1200 KW (1φ)
- Dual display KW + PF, KVA + KVAR, V + A, V + Hz, A + Hz
- Phase Angle Measurment (±90⁰), Phase Sequence Indication (R,S,T)
- AC 600V, DC 600V, AC + DC 2000A
- Power Factor
- AC/DC Auto Detection
- TRMS Values
- Memory of 4 records
- Auto Range

KVA + KVAR

V + Hz

Power Factor (PF) $PF = \frac{KW}{KVA}$

AC + DC KVA (Apparent Power) $KVA = \frac{V \times A}{1000}$

AC + DC KVAR (Reactive Power) $KVAR = \sqrt{(KVA)^2 - (KW)^2}$

General Specifications

Jaw Opening	Cable Dia. 55mm. (approx.) Bus Bar 65 (D) x 24 (W) mm
Power	9V Battery
Display	2 x 4 Digits Dual Display LCD
Range Selection	Auto
Overload Indication	OL
Power Consumption	25mA (approx.)
Low Battery Indication	B
Sampling Time	0.5 sec. (V and A) 1.6 sec. (W)
Operating Temp.	4⁰ to 50⁰C
Operating Humidity	<85% RH
Storage Temperature	-20⁰C to 60⁰C
Storage Humidity	<75% RH
Dimensions	271 x 112 x 46 mm
Weight	650gms Battery Including (approx.)
Accessories	Carry Bag x 1, Users Manual x 1, Battery (Installed) x 1, Test Lead x 1 Pair

Electrical Specification (23⁰C ± 5⁰C)

AC+DC True Power
(PF 0.2~1.0, 3φ 3W, 3φ4W, 1φ2W, and 1φ3W)

Range	Resolution	Accuracy (of rdg)	Range
0~99.99KW	0.01KW	± 2.0% ± 0.05KW	AC 600V, DC 600V, ACA/DCA 2000A
100~999.9KW	0.1KW	± 2.0% ± 0.5KW	AC 600V, DC 600V, ACA/DCA 2000A
1000~1200KW	1KW	± 2.0% ± 5KW	AC 600V, DC 600V, ACA/DCA 2000A

AC+DC True Power
(Power Factor 0.2~1.0, 3 φ Balanced Power)

Range	Resolution	Accuracy (of rdg)	Range
0~99.99KW	0.01KW	±2.0%±0.5KW	AC 600V, DC 600V, ACA/DCA 2000A
100~999.9KW	0.1KW	±2.0%±0.5KW	AC 600V, DC 600V, ACA/DCA 2000A
1000~2000KW	1KW	±2.0%±5KW	AC 600V, DC 600V, ACA/DCA 2000A

AC+DC Voltage (True RMS, Crest Factor<4, Autorange, Overload Protection 800VAC for all range)

Range	Resolution	Accuracy (of reading)		Input Impedance
		DC, 50/60 Hz	40 - 400 Hz	
0~200V	0.1V	±1.5% ±5 dgt	±2.0% ±5 dgt	10MΩ
200~500V	0.1V	±1.5% ±5 dgt	±2.0% ±5 dgt	
500~600V	1V	±1.5% ±5 dgt	±2.0% ±5 dgt	

AC+DC Current (True RMS, Crest Factor <4)

Range	Resolution	Accuracy (of reading)		Overload Protection
		DC, 50/60 Hz	40-400 Hz	
0~200A	0.1A	± 1.5% ± 5 dgt	± 2.0% ± 5 dgt	AC 3000A
200~500A	0.1A	± 2.0% ± 5 dgt	± 2.5% ± 5 dgt	AC 3000A
500~2000A	1A	± 2.5% ± 5 dgt	± 3.0% ± 5 dgt	AC 3000A

Phase Angle
(Must zero the current reading before measurement)

Range	Accuracy	Sensitivity	Remark
-90⁰ to + 90⁰ (50/60 Hz)	± 2.0⁰	V> 100V, A> 10A	Zero Crossing Detection

* If current signal is not detected, the phase angle will be left blank in LCD.

Frequency (if <10 Hz, Hz = 0)

Range	Accuracy	Sensitivity
50/60 Hz	± 2dgts	V > 1V, A > 5A
10-400 Hz	± 0.5% ± 2dgt	V > 1V, A > 5A