



PHT 4545

**Power Analysis**

- W, KW, HP, VA, KVA, VAR, KVAR ● PF, Phase Angle (Φ) ● Energy (WH, KWH)
- Balanced 3Phase Power Quality ● Balanced 3Phase Sequence ● Programmable CT Ratio (1 to 250) ● Dual Displays (W+PF, VA+KVAR...) ● Active Power in HP
- Resistance and Continuity with Beeper

**Harmonic Analysis**

- True RMS value (V and A) at 0.5% basic accuracy ● 1500A AC ● Harmonic Analysis (V and A) to the 99th Order in % and in magnitude ● Better Understanding of High Frequency Harmonic Analysis (up to 5/6 KHz) ● Non-interrupted Harmonic Analysis ● Analysis of Total Harmonic Distortion (%THD-F) ● Analysis of Crest Factor (C.F.) ● Fast Peak Function (33μs for 60Hz and 39μs for 50Hz)
- Max, Min and Data Hold Function

**General Specifications**

- Jaw Opening** : Cable Dia 55mm (approx.), 64 x 24mm (Bus Bar)
- Battery Type** : 1.5V SUM-3 x 2
- Display** : 4 + 4 digits LCD
- Auto-Power-Off** : 30 minutes
- LCD update rate** : 2 times / sec.
- Operating Temperature** : -10°C to 50°C
- Storage Temperature** : -20°C to 60°C
- Option** : alligator clips
- Power Consumption** : 10mA (approx.)
- No. of Samples/Period** : 512 (V & A), 256 (W)
- Operating Humidity** : < 85% relative
- Storage Humidity** : < 75% relative
- Weight** : 650gms Including Battery (approx.)
- Dimension** : 271 x 112 x 46 mm
- Accessories** : Test Leads, Carry Bag, Users Manual, Batteries (installed)

**Specifications** (23°C ± 5°C)

Harmonics of AC Current in % & Magnitude (1 - 99th order)				
Range	Resolution in %	Accuracy in %	Resolution in Magnitude	Accuracy in Magnitude
1 - 20th	0.1%	±2%	0.1A	±2% of reading ± 0.4A
21 - 49th		4% of reading ± 2.0%		± 4% of reading ± 0.4A
50 - 99th		6% of reading ± 2.0%		± 6% of reading ± 0.4A

Harmonics of AC Voltage in % & Magnitude				
Range	Resolution in %	Accuracy in %	Resolution in Magnitude	Accuracy in Magnitude
1 - 20th	0.1%	±2%	0.1V	±2% ± 0.5V
21 - 49th		4% of reading ± 2.0%		± 4% of reading ± 0.5V
50 - 99th		6% of reading ± 2.0%		± 6% of reading ± 0.5V

Crest Factor (C.F., Accuracy of Readings)		
Range	Resolution	Accuracy
1.00 - 99.99	0.01	± 5% ± 30 dgt

AC Watt (50 or 60Hz)		
Range	Resolution	Accuracy
10.0 - 999.9W	0.1W	± 2% ± 20 dgt (> 20V & > 20A)
1.000 - 9.999KW	0.001KW	
10.00 - 99.99KW	0.01KW	± 2% ± 40 dgt (< 20V or < 20A)
100.0 - 999.9KW	0.1KW	
1000 - 9999KW	1KW	

Power Factor & Phase Angle		
Range	Resolution	Accuracy
0.000 - 1.000	0.001	± 0.04
-180° to 180° & 0° to 360°	0.1°	± 2°

AC Current (50 or 60Hz, True RMS)		
Range	Resolution	Accuracy
10.0 to 1500.0A	0.1A	± 2% ± 5 dgt

Total Harmonic Distortion ( THD-F, 1 to 50th order)		
Range	Resolution	Accuracy
0.0 - 20%	0.1%	± 2%
20 - 100%		± 6% of reading ± 1%
100 - 999.9%		± 10% of reading ± 1%

AC Voltage (50 or 60Hz, True RMS)		
Range	Resolution	Accuracy
10.0 to 600.0V	0.1V	± 0.5% ± 5 dgt

Resistance (Ω) and Continuity (Beep if less than 50Ω)		
Range	Resolution	Accuracy
* 7.0 - 999.9Ω	0.1Ω	± 5Ω
1000 - 1200Ω	1Ω	

\* If reading is less than 7Ω, it is displayed as 0Ω