



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)
Power	: Two 1.5V "AA" Battery
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 46mm (approx.)
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 (1~99th order)				
Range	Resolution in %	Accuracy in %	Resolution in Magnitude	Accuracy in Magnitude
1 ~ 20th	0.1%	±2%	0.1V	± 2% of reading ± 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	
100.0 ~ 999.9KW	0.1KW	
1000 ~ 9999KW	1KW	± 2% ± 40 dgt (<20V or <20A)

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 ~ 1500.0A	0.1A	± 2% ± 5 dgts

Total Harmonic Distortion (THD-F, 1 to 50th order)		
Range	Resolution	Accuracy
0.0 ~ 20%	0.1%	± 2%
20.1 ~ 100%		± 6% of reading ± 1%
100.1 ~ 999.9%		± 10% of reading ± 1%

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

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