



**3510PHW-AUTO**

**Features**

- 4 Digit LCD, 9999 Count, Autoranging
- Data Hold, Auto Power Off
- Dual Display KW + HP, KW + PF, KW + KVAR, KVA +  $\phi$ , V + A, A + Hz, V + Hz
- Cable of Diameter upto 43mm / Busbar upto 65mm x 16mm

**Applications**

- Check Current drawn in Motors and Compressors
- Use MAX/MIN/REC in Temperature Mode to Assess Efficiency
- Test Run/Start Capacitors
- Analyze Temperature Data with the Aid of the Time Stamp
- Resistance upto 100M $\Omega$
- Check for Energized Circuits & Balance Loads
- Capture Motor In-Rush Current Readings
- Determine Peak Power Demand Periods
- Ideal for Electrical Audit of Heating, Ventilation & Aircon Systems (HVAC)
- To Identify Low Voltage Control Signal
- To Identify Power Sources
- 1 $\phi$  & 3 $\phi$  (3p3w/3p4w) Power Analyzer
- Evaluate Electrical Contacts
- Verify the Stability of Voltage
- Check Motor Run / Start Capacitor Values
- Check 3 $\phi$  Phase Sequence

1 $\phi$ /3 $\phi$ TRUE Power : (PF > 0.5 or $\theta$ < 60°) (1hp = 0.7457KW)			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Overload Protection
99.99KW	0.01KW	$\pm$ (5% + 30)	600VAC/ 1000AAC
600.0KW	0.1KW	(50, 60Hz)	

1 $\phi$ /3 $\phi$ HP (1HP = 745.7W) : (PF > 0.5 or $\theta$ < 60°)			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Overload Protection
99.99HP	0.01HP	$\pm$ (5% + 30)	600VAC/ 1000AAC
800.0HP	0.1HP	(50, 60Hz)	

1 $\phi$ /3 $\phi$ Apparent Power			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Overload Protection
99.99KVA	0.01KVA	$\pm$ (2.5% + 30)	600VAC/ 1000AAC
600.0KVA	0.1KVA		

1 $\phi$ & 3 $\phi$ Reactive Power : (PF > 0.5 or $\theta$ < 60°)			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Overload Protection
99.99KVAR	0.01KVAR	$\pm$ (5% + 30dgts)	600V AC/ 1000A AC
600.0KVAR	0.1KVAR	(50, 60Hz)	

3 $\phi$ Phase Sequence Indication		
Range	Frequency Response	Overload Protection
80V to 480V	(50Hz / 60Hz)	600V

ACA Inrush Current				
Range	Resolution	Sensitivity	Measurement Time	Overload Protection
99.99A	0.01A	> 5A	100ms	1000A AC
999.9A	0.1A	> 50A		

1 $\phi$ / 3 $\phi$ PF & Phase Angle (50Hz, 60Hz)			
Range	Resolution	Accuracy	Sensitivity
-60°/0° + 60°	0.1°	$\pm$ 6.0°	ACV > 100V, ACA > 10A
-0.5/1 + 0.5			

Frequency			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Sensitivity
40Hz/1KHz	0.1Hz	$\pm$ (0.5% + 2)	ACV > 1.2V, ACA > 6A

AC Current (50Hz to 400Hz) : TRMS				
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Sensitivity	Overload Protection
99.99A	0.01A	$\pm$ (2% + 30) (50,60Hz)	0.10A	1000A
999.9A	0.1A	$\pm$ (4% + 30) (40-400Hz)	1.0A	

$\mu$ A TRMS : (AC + DC) (Burden Voltage : 5mV/ $\mu$ A) (50Hz to 400Hz)				
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Sensitivity	Overload Protection
99.99 $\mu$ A	0.01 $\mu$ A	$\pm$ (1% + 30)	0.20 $\mu$ A	600V
999.9 $\mu$ A	0.1 $\mu$ A		2.0 $\mu$ A	

AC Voltage (50Hz to 400Hz) : TRMS				
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Sensitivity	Overload Protection
999.9mV	0.1mV	$\pm$ (1% + 30) (50,60Hz)	2.0mV	600V
9.999V	0.001V		0.020V	
99.99V	0.01V		0.20V	
600.0V	0.1V	$\pm$ (2% + 30) (40-400Hz)	2V	

Input Impedance : 3M $\Omega$

DC Voltage				
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Sensitivity	Overload Protection
999.9mV	0.1mV	$\pm$ (1% + 30)	2.0mV	600V
9.999V	0.001V		0.020V	
99.99V	0.01V		0.20V	
600.0V	0.1V		2V	

Input Impedance : 3M $\Omega$

Resistance (Continuity < 40 $\Omega$ on the 999.9 $\Omega$ range)			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Overload Protection
999.9 $\Omega$	0.1 $\Omega$	$\pm$ (1% + 10)	600V
9.999K $\Omega$	0.001K $\Omega$		
99.99K $\Omega$	0.01K $\Omega$		
999.9K $\Omega$	0.1K $\Omega$		

M $\Omega$ (Auto Ranging)			
Range	Resolution	Accuracy $\pm$ (%rdg + dgts)	Overload Protection
9.999M $\Omega$	0.001M $\Omega$	$\pm$ (5% + 10)	600V
99.99M $\Omega$	0.01M $\Omega$		