

S220B 2ph Multi-function PM



- More than a power meter
- Versatile
- Multiple phase AC system
- Simultaneous measurements of 2 channels of voltage or currents
- 3.5-inch real color LCD, real-time display
- Data easy to understand
- 2 current clamps, 4 test leads

DESCRIPTION

S220B is more than an electric power meter. Combining the functions of a clamp meter, phase sequence detector, and digital power meter, it is an ideal instrument for efficient power quality inspections. Not only can it be used for measurements of frequency, phase sequence, voltage, current, the phase between voltages, the phase between currents, and phase between current and voltage of a 3 phase AC system, it can also be used to measure active power, reactive power, apparent power, power factor, current vector and, identify vector group of transformers, differentiate inductive and capacitive circuits, test the secondary circuit and differential busbar protection systems, determine the phase relationship between the differential protection CT groups and verify the configuration of the watt-hour meter.

APPLICATION


Besides effectively performing basic tasks like measuring power and power factor, the S220B power meters offer the ease of use, portability, and flexibility needed to resolve most power issues in commercial, industrial, and residential settings. It is especially suitable for electrical parameter testing of high-power multiple phase motors, electric energy billing systems, and relay protection systems.

SPECIFICATIONS

Functions	It can measure the frequency, phase sequence, voltage, current, the phase between voltages, the phase between currents and phase between current and voltage, active power, reactive power, apparent power, power factor, current vector and, identify vector group of transformers, differentiate inductive and capacitive circuits, test the secondary circuit and differential busbar protection systems, determine the phase relationship between the differential protection CT groups, and verify the configurations of the watt-hour meter
Power	DC 7.4V, 3000mAh rechargeable lithium battery, USB charging port
Rated Current	180mA max
Display	3.5-inch true color LCD display
Dimension	207mm×101mm×45mm
Jaw Size	φ7.5mm×13mm
Measurement Range	AC Voltage: 0.00V ~ 600V
	AC: 0.0mA ~ 30A
	Phase Angle: 0.0° ~ 360.0°
	Frequency: 45.00Hz ~ 65.00Hz
	Active Power: 0.0W ~ 12kW
	Reactive Power: 0.0VAR ~ 12kVAR
	Apparent Power: 0.0VA ~ 12kVA
Power Factor: -1 ~ +1	
Resolution	Voltage: AC 0.01V
	Current: AC 0.1mA
	Phase Angle: 0.1°

Resolution	Frequency: 0.01Hz	
	Active Power: 0.1W	
	Reactive Power: 0.1VAR	
	Apparent Power: 0.1VA	
	Power Factor: 0.001	
Accuracy (under reference conditions)	Voltage: $\pm(0.5\%$ measurement range)	
	Current: $\pm(0.5\%$ measurement range)	
	Phase: $\pm 1^\circ$ (phase error under working conditions: 10mA ~ 30A is $\pm 3^\circ$; below is 10mA $\pm 5^\circ$; when the current value is lower than 5mA, to ensure the accuracy of current-to-current phase measurement, please do not perform voltage measurements. Similarly, during the phase test of voltage versus current, to ensure the accuracy of the measurement, the voltage should be no less than 5V and the current should be no less than 5mA)	
	Active Power $\pm(1.0\%$ measurement range)	
	Reactive Power $\pm(1.0\%$ measurement range)	
	Apparent Power $\pm(1.0\%$ measurement range)	
	Frequency $\pm(1.0\%$ measurement range)	
	Power Factor ± 0.03	
	Sampling Rate	2 seconds
	Data Hold	Press HOLD to hold and save the data
Data Saving	99 sets	
Charge Port	USB Port	
Automatic Shutdown	15mins after startup, the instrument will automatically shut down to reduce battery consumption	
LCD Brightness	Press \uparrow / Arrow to adjust the brightness of the LCD	
Low Battery Warning	When the battery voltage drops below 6.5, the low battery sign will be displayed, please charge the battery when possible. The device will turn off in 10 seconds	
Weight	Main Unit: approx. 413g (including battery)	
	Current Clamp: approx. 179g $\times 2$	
	Testing Wires: approx. 162g $\times 2$	
	Total Weight: approx. 3.25kg	
Length Of Test Leads	1.5m	
Cable Length Of Current Clamp	2m	
Ideal Working Conditions	-10 $^\circ\text{C}$ ~ 40 $^\circ\text{C}$; below 80%RH	
Ideal Storage Conditions	-10 $^\circ\text{C}$ ~ 60 $^\circ\text{C}$; below 70%RH	
Input Impedance	The testing voltage input impedance: 1M Ω	
Withstand Voltage	The withstand voltage is 1000V/50Hz for 1 minute (between the front and back end of the housing)	
Insulation	$\geq 100\text{M}\Omega$ (between the front and back end of the housing)	
Structure	Double insulation with insulated shockproof sheath	
Safety Standards	IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, Pollution class II	

ACCESSORIES & ORDER DATA

Description	Order Code	Description	Order Code
S220B 2ph Multi-function PM, 1 pc	S220B	Included accessories for S220B	
		Toolbox, 1 pc	
		Current clamps, 2 pcs	
		Test leads, 4 pcs (red and black two each)	
		USB charger and cable, 1 set	
		Li-battery, 1 pack (in device)	
		Software (e-copy), 1 pc	
		User manual, Warranty card, Certificate of Conformity, 1 copy of each	

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