

S210B 1ph Multi-function PM



- Compact and slim design
- High accuracy
- Easy to operate/understand
- Versatile multifunction power meter

DESCRIPTION

The S210B 1ph Multi-function PM is a reliable and versatile troubleshooting tool for commercial and residential electricians. The instrument uses a high-performance 32-bit embedded processor with a real-time operating system, the CPU frequency can reach up to 120MHz, and the ADC (Analog to Digital Converter) has the highest sampling rate of 1MSPS, which ensures the accuracy of the data. The meter can measure the phase, true RMS voltage, true RMS current, active power, reactive power, apparent power, power factor, 1~50th harmonic, harmonic ratio, leakage current, frequency, phase sequence, and identify between inductive and capacitive circuits all at the same time. Also, it can display in real-time the voltage and current waveform.

In addition to its slim design, it also comes with a data-hold feature to freeze the displayed value for use in confined situations where the display may be difficult to read. It is the perfect instrument for taking measurements in a packed environment.


APPLICATION

The S210B is the ideal tool for use during the installation, maintenance, and checking of electrical systems and equipment.

SPECIFICATIONS

Functions	The meter can measure the phase, true RMS voltage, true RMS current, active power, reactive power, apparent power, power factor, 1~50th harmonic, harmonic ratio, leakage current, frequency, phase sequence, and identify between inductive and capacitive circuits all at the same time
Power	6LR61, 9V DC
Measure Method	Clamp CT, true effective value method
Jaw Size	Φ7.5mm×13mm
	Phase Angle: 0° ~ 360°
	Voltage: AC 0.1V ~ 600V (Voltage frequency range: 40Hz~70Hz)
	Current: AC 0.0mA ~ 30.0A (Current frequency range: 40Hz~70Hz)
	Active Power: 0.00W~18.0KW
	Reactive Power: 0.00Var~18.0KVar
	Visual Power: 0.00VA~18.0KVA
	Active Electric Energy: 0.0Wh~9999KWh
	Reactive Power: 0.0VARh~9999KVARh
	Visual Electric Energy: 0.0VAh~9999KVAh
	50Hz Harmonic Order: 1~50 times
	Harmonic Ratio: 0%~100%
	Frequency: 40.0Hz ~ 70.0Hz
Measurement	Power Factor: -1 ~ +1

	Phase Angle: 1°
	Voltage: 0.1V
	Current: 0.1mA
	Visual Power: 0.01VA
	Active Power: 0.01W
	Reactive Power: 0.01Var
Resolution	Visual Power: 0.1VAh
	Active Power: 0.1Wh
	Reactive Power: 0.1VARh
	Harmonic Ratio: 1%
	Frequency: 0.1Hz
	Power Factor: 0.01
	Phase: $\pm 2^\circ$ (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)
	Voltage: $\pm 1.5\% \pm 5 \text{dgt}$
	Current: $\pm 1.5\% \pm 5 \text{dgt}$
Accuracy (23°C $\pm 5^\circ\text{C}$, below 80%RH)	Active Power: $\pm 2\% \pm 5 \text{dgt}$
	Reactive Power: $\pm 2\% \pm 5 \text{dgt}$
	Apparent Power: $\pm 2\% \pm 5 \text{dgt}$
	Active Energy: $\pm 2\% \pm 5 \text{dgt}$
	Reactive Energy: $\pm 2\% \pm 5 \text{dgt}$
	Apparent Electric energy: $\pm 2\% \pm 5 \text{dgt}$
	Harmonic Ratio (>30mA V>30V): $\pm (2\% + 6 \text{dgt})$
	Frequency: $\pm 1 \text{Hz}$
	Power Factor: ± 0.04
Waveform	Can display 1~4 complete cycle waveforms (50Hz)
Harmonic Wave	1~50 times
Data Save Interval	The automatic data saving interval is turned off by default
Data Storage	Interval: automatic data saving interval can be set from every 1 second to 999 seconds
	4000 sets
Automatic Shutdown	10min: The instrument will automatically shut down in 10 minutes (the default is 10 minutes to shut down automatically)
	This function can be turned off
Display	OLED
LCD Size	35mm×21mm; display area 32mm×15.5mm
Automatic Range Shift	The measurement range will be changed automatically based on the circuits being tested
Sampling Rate	ADC sampling rate: 1MSPS; display rate: 10 times/sec
Dimension	Length, width, and thickness 213mm×60mm×32mm
Line Voltage	The cable being tested must be below 600V
Function Switch	Press the MODE button to switch between functions
Data Hold	Press the HOLD key to hold the data, and then press the HOLD key again to cancel
View Data	Press the READ key to view the data, press the up and down arrow keys to browse through the stored data
Overload Display	Exceeding measurable range: the "OL" symbol will be displayed
Invalid Display	"----" or "---"
Low Battery Warning	The battery icon displays the real-time battery level. When the battery voltage is low, the hollow battery icon will be displayed. Please replace the battery as soon as possible
Weight	The instrument itself: approx. 258g (including battery); the total mass is about 486g
Working Current	Max 17mA
Ideal Working Conditions	-10°C ~ 40°C; below 80%RH
Ideal Storage Conditions	-10°C ~ 60°C; below 70%RH
Insulation Strength	2000V/RMS (between the front and rear ends of the instrument housing)
Safety Standards	IEC1010-1, IEC1010-2-032, pollution class 2, CAT III (600V)

ACCESSORIES & ORDER DATA			
Description	Order Code	Description	Order Code
S210B 1ph Multi-function PM, 1 pc	S210B	Included accessories for S210B	
		Tool box, 1pc	
		Voltage test leads, 2 pcs (red and black)	
		Battery, 1 pc	
		User manual, Warranty card, Certificate of Conformity, 1 copy of each	

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