

# S230D 3ph Multi-Function PM (L-Clamp)

### FEATURES



More than a power meter
AC power analysis
Voltage & current phase relationship
Vector Sum of Current
Clamp size: $\Phi 70\text{mm}$



### 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 Li-battery, USB port, can work for up to 10h when fully charged
Rated Current	Approx. 180mA Max
Dimension	207mm×101mm×45mm
Jaw Size	$\Phi 70\text{mm}$
Sampling Rate	Approx. 3 times/sec
Measurement Range	AC Voltage: 0.00V to 600V
	AC Current: 0.000mA to 500A
	Phase Position: 0.0° to 360.0°
	Frequency: 45.00Hz to 65.00Hz
	Active Power: 0.0W to 600kW
	Reactive Power: 0.0W to 600kVAR
	Apparent Power: 0.0VA to 600kVA
	Power Factor: -1 to +1
Resolution	Current Vector sum: 0.000A to 3000A
	Voltage: AC 0.01V
	Current: AC 0.001A
	Phase Position: 0.1°
	Frequency: 0.01Hz
	Active Power: 0.1W

Resolution	Reactive Power: 0.1VAR
	Apparent Power: 0.1VA
	Power Factor: 0.001
	Current Vector Sum: AC 0.001A
Accuracy	Voltage: $\pm(0.5\%$ range)
	Current: $\pm(0.5\%$ range)
	Phase: $\pm 1^\circ$ (phase error under working conditions: 0.010A to 500A is $\pm 3^\circ$ : below is $0.010A \pm 5^\circ$ ; 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: $\pm (1.0\%$ range)
	Reactive Power: $\pm (1.0\%$ range)
	Apparent Power: $\pm(1.0\%$ range)
	Frequency: $\pm(1.0\%$ range)
	Power factor: $\pm 0.03$
Phase Sequence	Positive Phase Sequence: U1, U2, U3 or I1, I2, I3 cursor flashes from left to right in sequence
	Negative Phase Sequence: U1, U2, U3 or I1, I2, I3 cursor flashes from right to left in sequence
Data Storage	99 sets
Charger	USB
Weight	Main Unit: approx. 447g (including battery)
	Current Clamp: approx. 556g $\times 3$
	Testing Leads approx. 162g $\times 2$
	Total Weight: approx. 4.6kg
Test Leads Length	1.5m
Cable Length Of Current Clamp	2m
Input Impedance	The test voltage input impedance: $1M\Omega$
Withstand Voltage	From the front to the back of the instrument's housing, it can withstand 1000V/50Hz sine wave AC voltage for 1 minute
Insulation	$\geq 100M\Omega$ (between the front and back end of the housing)
Safety Standards	IEC61010-1, CAT III 600V, IEC61010-031, IEC61326, Pollution class 2



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