

FR2010E+ Intelligent Double Clamp Phase Voltammeter



I . Characteristic

FR2010E+ double-clamp digital phase voltammeter is a high-quality, multi-function, high-precision, intelligent, portable handheld measuring instrument specially designed for on-site measurement of voltage, current, power, power factor, frequency and phase. It is widely used in electric energy measurement, electricity inspection, electric power inspection, meter installation and power connection and relay protection, differential detection, start-up test, industrial and mining enterprises, scientific research institutions and other departments. The instrument test is accurate, fast, simple, stable and reliable.

FR2010E+ double clamp digital phase voltammeter can not only directly measure AC voltage value, AC current value, phase and power frequency between voltages, currents, and voltages and currents, but also have other measurement and judgment functions. The judgment of current and capacitive circuits, checking the wiring group of the transformer, and checking whether the electric energy meter is connected correctly is an ideal instrument for grasping the power usage and checking the secondary circuit.

The FR2010E+ double-clamp digital phase voltammeter consists of a host, a current clamp, a test lead, and a protective sleeve. It stores 500 sets of data at the same time, and has the function of static data storage. With historical data reading, viewing, saving, reporting, printing and other functions.

II . Technical Specification

Features	Measure two-way AC voltage, current, phase between voltages, phase between currents, phase between voltage and current, frequency, active power, reactive power, apparent power, power factor, identify transformer wiring groups, inductive and capacitive circuits, and test Secondary circuit and bus differential protection system, read out the phase relationship between each group of CTs of differential protection, check whether the wiring of the watt-hour meter is correct or not, and repair the line equipment, etc.
Power supply	3.7V lithium rechargeable battery
Power consumption	When the backlight is turned on, the maximum power consumption is 250mA, and the battery can work continuously for more than 12 hours
Display mode	LCD color display, 72×55mm
Meter size	Length, width and thickness: 187*119*48mm

Jaw size	Φ8mm		
Voltage range	AC 0.00V~600V	Resolution: 0.01V	Accuracy: ±0.5%FS
Current range	AC 0.0mA~20.0A	Resolution: 0.1mA	Accuracy: ±0.5%FS
Phase range	0.0°~360.0°	Resolution: 0.1°	Accuracy: ±1°
Frequency range	45.00Hz~65.00Hz	Resolution: 0.01Hz	Accuracy: ±0.5Hz
Active power range	0.0W~12kW	Resolution: 0.1W	Accuracy:±(3%rdg+3dgt)
Reactive power range	0.0W~12kVAR	Resolution: 0.1VAR	Accuracy: ±(3%rdg+3dgt)
Apparent Power Range	0.0W~12kVA	Resolution: 0.1VA	Accuracy: ±(3%rdg+3dgt)
Power factor range	-1~+1	Resolution: 0.001	Accuracy: ±0.03
Detection rate	About 2 seconds/time		
Data retention	During the test, press the HOLD key to keep the data, and the "HOLD" symbol will display		
Data storage	500 groups		
Silicone protective cover	Have		
USB interface	USB interface, the stored data can be uploaded to the computer, which is convenient for analysis and management of data		
Automatic shut-down	The meter shuts down after about 15 minutes of inactivity		
Backlight function	Suitable for dark places and night use		
Voltage detection	When the battery voltage is lower than 3.2V, the low battery voltage symbol will be displayed to remind you to charge in time		
Instrument quality	Host: 350g (with battery)		
	Needle-nose current clamp: 180g×2		
	Test line: 190g		
Test lead length	1.5m		
Current clamp wire length	2m		
Working temperature and humidity	-10℃~40℃; below 80%Rh		
Storage temperature and humidity	-10℃~60℃; below 70%Rh		
Input resistance	Test voltage input impedance: 1MΩ		
Pressure resistance	Withstand 1000V/50Hz sine wave AC voltage between instrument circuit and enclosure for 1 minute		
Isolation	Between instrument line and shell ≥100MΩ		
Structure	Shell insulation		
Suitable for safety regulations	IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, pollution degree 2		

III. Packing List

Instrument	1 set
Current clamp	2
USB communication cable	1
Monitoring software (CD-ROM)	1 piece
Instrument box	1
Test line	4 (2 red and 2 black)
Charger	1
Manual, Warranty	1 set

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