FR2010+ Double clamp digital phase voltmeter





I. Product Introduction

FR2010+ double clamp digital phase voltmeter, is a high-quality, multi-functional, high-precision, portable handheld measuring instrument designed for on-site measurement of voltage, current, frequency, and phase. Widely used in electrical energy measurement, electricity inspection, power inspection, power meter and relay protection, differential detection, start-up test, industrial and mining enterprises, scientific research institutions and other departments. Instrument testing is precise, fast, simple, stable and reliable.

FR2010+ double clamp digital phase voltmeter has the ability to directly measure the AC voltage, AC current, the phase between voltage, between currents and the phase between voltage and current, it also has other measurement judgment functions, judge the inductive current and capacitive circuit, check the transformer wiring group, check whether the power meter is wired correctly. It is the ideal instrument for checking the use of power and performing secondary circuit inspection. The two common terminals of the meter are not connected together, which is safe and reliable.

II. Technical Specification

Function	current phase, frequency, ,ju circuit, test secondary cir- relationship between the	oltage, current, voltage phase adging the transformer wiring cuit and busbar protection CTs of the differential prothe watt-hour meter, repair the	system,read out the phase otection groups, check the
Power	DC9V alkaline dry battery		
Power consumption	Turn on the backlight and consume up to 30mA. The battery can work continuously for more than 12 hours.		
Display mode	LCD display, 72×55mm		
Instrument size	W/L/T: 187*119*48mm		
Voltage range	AC 0.00V~600V	Resolution: 0.01V	Accuracy: $\pm (0.5\% \text{ FS})$
Current range	AC 0.0mA~20.0A	Resolution: 0.1mA	Accuracy: $\pm (0.5\% \text{ FS})$
Phase range	$0.0^{\circ} \sim 360.0^{\circ}$	Resolution: 0.1°	Accuracy: ±1°
Frequency range	45.00Hz~65.00Hz	Resolution: 0.01Hz	Accuracy: ±0.5Hz
Detection rate	About 2 second/time		
Data hold	Press HOLD key to hold data during test, "H" symbol display		
Automatic shut-down	About 15 minutes after power on, the meter will automatically shut down to reduce		

	battery consumption		
Backlight function	Suitable for dark places and night use		
Voltage detection	When the battery voltage is lower than 7V, the battery voltage is low symbol display		
Instrument weight	Host: 362g(including battery)		
	Tip-shaped current clamp: 180g×2		
	Test line: 190g		
Voltage test line length	1.5m		
Current clamp line length	2m		
Working temperature			
and humidity	-10°C ~40°C; below 80%Rh		
Storage temperature			
and humidity	-10°C ~60°C; below 70%Rh		
Input impedence	Test voltage input impedance is: $1M \Omega$		
Pressure resistance	The withstand voltage of 1000V/50Hz sine wave AC voltage between the instrument		
	circuit and the housing lasts 1 minute		
Insulation	Between instrument line and housing \geq 100M Ω		
Structure	Housing insulation		
Suitable for safety regulations	IEC61010-1 CAT III 600V, IEC61010-031, IEC61326, pollution level 2		

III、Accessories

Phase voltmeter	1PC
Current clamp	2PCS
Instrument box	1PC
Test line	4PCS (red, black each two)
9V battery	1PC
Manual, certificate	1SET



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