

GF211

Double Clamp Phase Volt-ampere Meter

GF211 double clamp phase volt-ampere meter is a multi-functional portable instrument. It can measure not only alternating voltage, but also alternating current. Its important function is to measure phase angle between two voltages, between two current or between voltage and current. The current signal is obtained by the clamp current transformer without cutting off current wire. It can discern inductive circuit and capacitive circuit; can directly read differential protection phase among every unit of CT; can check connection of transformer; measure three way voltage phase sequence; can check whether the meter connection is right or not; can evaluate the running speed of electric kWh meter. It has high resolution of current, so can be used as a leakage current meter. It is an ideal choice for electric power bureau, factories, mine, petroleum-chemistry enterprises, metallurgy factories and so on.



Parameters

Electrical parameters	
Accuracy class	1%, 2%
Power supply	Two 9V batteries
Scale	
Phase	0-360°
AC Voltage	500V
AC Current	200mA/2A/10A
Fundamental error (under standard operating environment)	
Temperature	23°C±5°C
Moisture	<65%
Wave form	Sine wave Distortion ≤1%
Frequency	50± 2Hz, 60± 2Hz
Wire position	Center of clamp
Phase measurement	Voltage: 100V± 25V Current: 1A±0.2A
Phase accuracy	1.0% FS

Electrical parameters - continued
Fundamental error (under standard operating environment) - continued
Voltage accuracy

200V	1.0FS, Resolution: 0.1V
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500V	1.0FS, Resolution: 1V
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Voltage accuracy

10A	2.0FS, Resolution: 10mA
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2A	2.0FS, Resolution: 1mA
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200mA	2.0FS, Resolution: 0.1mA
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Input impedance

When measure voltage	1MΩ
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Input voltage impedance	>120KΩ when measure phase
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Phase measurement

Voltage accuracy	3V-500V
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Current range	0.01A-10A
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Additional error

Measure phase angle, the voltage and the current	Less than the fundamental error
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Measure current	The error led by wires away from center of clamps is less than the fundamental error
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Safety specification

Resistance to voltage	The meter can resist 1000V (AC sine wave, 50Hz or 60 Hz) for 1 minute between the meter circuit and the meter case; Between input joint U1 and U2 can resist 500V (AC sine wave, 50Hz or 60 Hz) for 1 minute.
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Insulation resistance	The resistance both between the meter circuit and the meter surface and between the terminals U1 and U2 is greater than 100MΩ.
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Mechanical parameters

Dimensions (W×D×H) (mm)	185×167×35
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Weight (kg)	0.5
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Environmental conditions

Working temperature	0°C±40°C
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Humidity	≤80%
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Accessory

Double clamp phase volt-ampere meter	1 piece
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Clamps 10A	2 pieces
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Clamp wire	2 pieces
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Voltage wire	2 pieces
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User's manual	1 piece
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Accessory - continued

Certification of quality	1 piece
Box	1 piece