

## GF211B

### Multi-function Double Clamp Digital Phase Angle Meter

*GF211B multi-function double clamp digital phase angle meter is a multi-functional portable instrument. It is an ideal choice for electric power bureau, factories, mine, petroleum-chemistry enterprises, metallurgy factories and so on.*



### Features

1. Can check connection of transformer
2. Measure two way voltage phase sequence
3. Discern inductive circuit and capacitive circuit
4. Can check whether the meter connection is right or not
5. Can evaluate the running speed of electric kWh meter
6. Directly read differential protection phase among every unit of CT
7. Hhigh resolution of current, so can be used as a leakage current meter
8. Current signal is obtained by the clamp current transformer on line directly
9. Measure phase angle between two voltages, between two current or between voltage and current
10. Measure alternating voltage (U), alternating current (I), frequency (F), active power (P), reactive power (Q), power factor (PF) and so on

### Parameters

Electrical parameters	
Accuracy class	0.5%
Power supply	3.7V batteries
Scale	
Phase	0-360°
AC Voltage	0-500V
AC Current	200mA / 2A / 10A
Frequency	45-65Hz
Active power accuracy	0.5%, resolution 0.01W
Power factor	-1 ~ 0 ~ 1, resolution 0.001
Fundamental error (under standard operating environment)	
Temperature	23°C±5°C
Moisture	< 65%

<b>Electrical parameters - continued</b>	
<b>Fundamental error (under standard operating environment) - continued</b>	
Wave form	Sine wave Distortion $\leq 1\%$
Frequency	50 $\pm$ 2Hz, 60 $\pm$ 2Hz
Wire position	Center of clamp
Phase measurement	Voltage: 100V $\pm$ 25V Current: 1A $\pm$ 0.2A
Phase accuracy	1.0% FS
<b>Voltage accuracy</b>	
200V	1.0FS, Resolution 0.1V
500V	1.0FS, Resolution 1V
<b>Current accuracy</b>	
10A	1.0FS, Resolution 10mA
2A	1.0FS, Resolution 1mA
200mA	1.0FS, Resolution 0.1mA
<b>Input impedance</b>	
When measure voltage	1M $\Omega$
Input voltage impedance	> 120K $\Omega$ when measure phase
<b>Phase measurement</b>	
Voltage range	2-500V
Current range	0.005-10A
<b>Additional error</b>	
Measure phase angle, the voltage and the current	Less than the fundamental error
Measure current	The error led by wires away from center of clamps is less than the fundamental error
<b>Safety specification</b>	
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.
Insulation resistance	The resistance both between the meter circuit and the meter surface and between the terminals U1 and U2 is greater than 100M $\Omega$ .
<b>Mechanical parameters</b>	
Dimensions (WxDxH) (mm)	185x85x41
Weight (kg)	0.26
<b>Environmental conditions</b>	
Working temperature	0 $^{\circ}$ C $\pm$ 40 $^{\circ}$ C
Humidity	$\leq 80\%$

**Accessory**

Multi-function double clamp digital phase angle meter	1
Clamps 10A	2
Clamp wire	2
Voltage wire	2
User's manual	1
Certification of quality	1
Box	1