

GF111D

DC Reference Energy Meter

The model GF111D high precision DC reference energy meter are used in electric power, metrology, military industry, manufacturing and scientific research institutes and other DC measurement fields or laboratories. Characteristic features of the GF111D are its wide measuring range, high accuracy and high tolerance to unwanted external influences. Its voltage range from 0 to 1200V, current range from 0 to 600A, DC reference standard of accuracy 0.02%. The DC reference standard offers high functionality combined with an excellent menu guided operation via built-in keyboards and colored 8 inch color touch LCD-display. It can automatically test DC energy meter error, energy accumulation, error of time of day.

Features

1. Accuracy 0.02%
2. 0-600A/0-1200V
3. 8 inch TFT touch screen
4. Using 24bit A/D sampling technology
5. Electrical isolation between U and I channels
6. Recorder 10000 sets energy meter data



Functions

1. Testing all kinds of DC energy meter, DC power meter
2. Testing all kinds of DC ammeter, DC voltmeter
3. DC electric energy accumulation function
4. User friendly menu guided operation
5. As high precision DC reference standard
6. Easy verification and analysis of DC meter
7. Automatic operation without need of an external PC

Parameters

Electrical parameters

Accuracy	0.05%, 0.02%
Power Supply	One Phase AC 180-265V, frequency 50/60Hz.
DC Voltage Measurement	
Range	10mV, 100mV, 1V, 10V, 30V, 100V, 300V, 1000V (max 1200V)
Accuracy	$\pm(0.012\%RD+0.008\%RG)$

Electrical parameters-continued
DC Current Measurement

Range	0.7mA, 3.5mA, 14mA, 35mA, 140mA, 700mA, 1A, 2A, 5A, 10A, 20A, 50A, 100A, 500A (max 600A) small signal 2.5mV, 20mV, 100mV, 1V, 5V
Accuracy	$\pm(0.012\%RD+0.008\%RG)$

DC Power Measurement

power accuracy	$\pm 0.02\%$
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DC Power Energy Measurement Error

power energy	$\pm 0.02\%$
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Power Pulse Output

Power Pulse Output	20KHz
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Power Pulse Input

Energy pulse input	20KHz
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Communication port	USB port, RS232, 10/100M LAN
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Mechanical parameters

Dimensions (WxDxH) (mm)	400x440x290
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Weight (kg)	12
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Environmental conditions

Ambient temperature	-10°C to +40°C
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Relative humidity	35%-85%
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(1) RG means range, the same as below;

(2) RD means the setted harmonic content, harmonic can be a single output, also multiple output.