

## Wuhan SGB-C AC&DC Digital HV Meter



### I. Introduction

This series products are general purpose HV measuring instruments, apply in power system, Electronic Equipment Factory to test frequency AC high voltage and DC high voltage. This product is composed by HV measuring part and LV display instrument. They use supporting cable to connect.

### II. Features

#### 1. High precision

Adopt precision high-voltage film capacitors and precision glass glaze resistors, high input impedance, reducing the test current, low power consumption, improve the instrument's measurement precision and stability;

Signal processing part, using high-performance OP to amplify signal, using the latest technology dual integral AD sampling, four semi-liquid crystal displays, the highest resolution reaches 0.001kV, it is the upgrading production of static high voltage meter.

#### 2. Good anti-jamming performance

Adopt special shielding technology. The surface of equalizing ring is smooth and glossy, effectively improve the electric field distribution around the equalizing ring to prevent point discharge, improve the anti-jamming capability of measurement data. The voltmeter adopts all-metal enclosed structure shielding, using high quality coaxial cable connect HV divider with the voltmeter, reduce the impact of HV on the indication values, so as to achieve high stability, high linearity.

#### 3. Safe and reliable

The instrument is composed of high-voltage divider and voltmeter, high voltage divider using DuPont filling materials, special casting process, smaller in structure, lighter in weight, to minimize internal partial discharge , higher reliability. There is no leakage problem. When working, use high quality

coaxial cable connect HV divider with the voltmeter, safe and reliable.

4. Simple operation

Adopt DIP switch to switch high voltage and low voltage, AC and DC, convenient and quick. Four semi-liquid display direct shows measurement result, simple and intuitive. It is convenient for on-site testing work.

5. Easy to carry

Use portable structure, the whole chassis with aluminum box can be easily dismantled. Small in size, light in weight, easy to carry, easy to use.

**III. Parameters**

Technical parameters

Ratio	1000:1	
Insulating medium	dry type dielectric material	
AC measuring method	real effective value measurement	
Condition of circumstance	Temperature	0~40°C
	Humidity	≤85%RH

Main Specifications

Model	Voltage class	Accuracy	Voltmeter range	impedance (MΩ)	Signal line length	Dimension (mm <sup>3</sup> )	Weight (kg)
SGB-50C	AC : 50kV,DC : 50kV	AC : 1.0% DC : 0.5%	Low : 0-20kV,High : 0-50kV	600	3m	180*180*620	6
SGB-100C	AC : 100kV,DC : 100kV	AC : 1.0% DC : 0.5%	Low : 0-20kV,High : 0-100kV	1200	3m	180*180*900	8
SGB-150C	AC : 150kV,DC : 150kV	AC : 1.0% DC : 0.5%	Low : 0-20kV,High : 0-150kV	1800	4m	250*250*1100	15
SGB-200C	AC : 200kV,DC : 200kV	AC : 1.0% DC : 0.5%	Low : 0-20kV,High : 0-200kV	2400	4m	250*250*1330	17
SGB-300C	AC : 300kV,DC : 300kV	AC : 1.5% DC : 1.0%	Low : 0-20kV,High : 0-300kV	3600	5m	250*250*1900	22

**IV. Accessories**



Voltage Divider



Voltage Meter



Signal Wire



Ground Wire



Manual, Report, Certificate