

HVTEST

GM-20kv Insulation Resistance Tester, Digital Ohm Meter, Intelligent Megohmmeter



Product overview

For safety, before use the instrument must be well earthed. That's because the measured target connects to high voltage power, and exists power frequency leakage.

Once high voltage has started, do not use manual discharge method to check the instrument. After test, please wait the instrument completes automatic discharge and automatically returns to zero, then manual discharge can be operated. That is because electrical pulse caused by short-circuit discharge will damage the insulation life of the measured object; if the pulse fleeing into the instrument, will also damage the integrated circuit inside the instrument.

The instrument is designed for HV substations and power plants to test the characteristic of large HV transformer, electric machines and appliances, remote power cable or buried cable and other electrical insulation resistance in strong interference environment. It also can be widely used for testing characteristics of insulation resistance in other area.

Products features

1. With strong anti-electric field interference ability up to 2mA (50Hz), it is suitable for 500kV substation without dismantling wire to test insulation resistance of 500kV large-scale transformer.
2. The short-circuit current of test power > 5mA, maximum up to 15mA. Be suitable for testing high capacity and high inductance.
3. Wide resistance range from 0.5MΩ ~ 200000MΩ. With high-resolution, having accurate readings.
4. Wide voltage range: 0.25kV, 0.5kV, 1kV, 2.5kV, 5kV, 10kV, 15 kV/20kV, you can smoothly adjust voltage from 0V to the desired value.
5. With timekeeping function, remind users to record, and analyze absorptance and polarization index of measured target.

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Model NO. GM-20KV
Range : 20mΩ - 2000gΩ
Resistance Measurement Range : 0.5 - 1999 GΩ by Subsection
Accuracy : ±(5%+5digital)
Anti-Electric Field Interference Ability 2mA(50Hz)
Display Three and a Half Bits LCD
Power Supply 10×1.2vbattery DC12V AC: 220V (50/60Hz)
Temperature : 0~40°C
Relative Humidity 20~90%
Dimension 315×240×155mm³
Weight 5kg
Colour Green
Type Automatic
Trademark HV TEST
Transport Package Carton
Specification see details
Origin China
HS Code 9030899090

Technique parameters

1. Technique specifications

Model	Test voltage	Voltage accuracy	Short-circuit current
GM-20kV	0.5,1,2.5,5,10,20kV	±(5%+10V)	10mA

2. Range and accuracy

Range	Resistance measurement range	Accuracy
20MΩ/500V	0.5~19.99 MΩ	±(5%+5digital)
200MΩ/1000V	5.0~199.9 MΩ	±(5%+5digital)
2GΩ	0.05~1.999 GΩ	±(5%+5digital)
20GΩ	0.5~19.99 GΩ	±(5%+5digital)
200GΩ	5.0~199.9 GΩ	±(10%+10digital)
2000GΩ	50~1999 GΩ	Less than 1000GΩ ± (20% + 10 digital) (humidity ≤70%)

Calibration voltage of MΩ range is 0.5kV; Calibration voltage of GΩ range is 2.5kV

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Anti-electric field interference ability	2mA(50Hz)	
Timekeeping and alarm function	maximum value of stopwatch is 19 minutes and 59 seconds. 20 minutes for a cycle. The stopwatch will tell the time at these time points: 15 seconds, 60 seconds and every 60 seconds. When telling time, resistance readings hold for 5 seconds. If the measured resistance is below the lower limit of range, the reading is invalid and the instrument will continuously sound to give an alarm	
Display	three and a half bits LCD digital meter (three), respectively show test voltage, test resistance, test time	
Power supply	10×1.2Vbattery(2000mAh Ni-MH rechargeable battery), total DC12V power supply AC: 220V (50/60Hz)	
Operating Conditions	Temperature:0~40°C	Relative humidity:20~90%
Dimension	315×240×155mm³	
Weight	5kg	