



GD3126A 5kV Insulation Resistance Tester



Product Description

GD3126A Insulation Resistance Tester is widely used in maintenance of electrical equipment in transformer substation, power plant, etc. It is suitable for carrying out measurement of insulation resistance (IR), absorption ratio (DAR) and polarization index (PI) of all kinds of high voltage equipment, including switchgear, transformers, reactors, capacitors, motors, generators and cables, etc.

Features

- Using microcomputer control, menu operation and large LCD screen dot matrix display with stable performance.
- Strong anti-interference ability, suitable for measuring in strong electromagnetic interference environment.
- Large capacity, can meet the requirements of high voltage, high resistance, large capacity load test.
- With shockproof, moisture-proof and dust-proof structure, adapt to the harsh working environment.
- User friendly, display accurate results and data change trends.
- Perfect protection function, able to withstand impact of short circuit and the measured capacitance residual voltage.
- Output high voltage can also be continuously adjusted.
- Automatic measurement of R15, R60, R600, automatic calculation of absorption ratio, polarization index.
- Maximum resistance measurement range is 0~10TΩ, automatic switching range.
- Automatic measurement of ambient temperature, air humidity and test time.
- Displays the test time, buzz tips at every 15 seconds, 5 minutes without operation will prompt shutdown.
- Automatically discharge high voltage after measurement is completed, the discharge time is no more than 30 seconds.
- Storage of 60 groups of measuring results, nonvolatility.
- With RS232 serial interface, able to data communicate with computer.
- With external printer, can print measuring results. (optional)
- Able to detect leakage current Ix and absorption capacitance Cx. (Optional)

Specifications

Rated test voltage		GD3126A(5kV)	GD3126B(10kV)
		250 V, 500V, 1.0kV, 2.5kV, 5.0kV	250 V, 500V, 1.0kV, 2.5kV, 5.0kV, 10.0kV
Output voltage error		±5%	
Resistance range	Upper limit	500GΩ-10TΩ	500GΩ-20TΩ
	Lower limit	0.1MΩ	0.1MΩ
Accuracy class		Class 5.0	
High voltage display error		$\pm(5\% \cdot U_x + 1d)$	
Temperature measuring error		±0.5℃	
Humidity measuring error		±2%RH	
Short circuit current		Approx. 6mA	

Voltage ripple	<3%
Insulation resistance	> 500 MΩ (between test wire and case)
Withstand voltage	AC10.0kV 50Hz 1min (between test wire and case)
Power supply	14.8V lithium battery
Battery service time after one charging	30days 10times DAR & 5times PI test per day
Working temperature and humidity	0°C ~ + 40°C < 85%RH
Storage temperature and humidity	- 20°C ~ + 50°C < 90%RH
Dimension (mm)	325 (L)*250(W)*130(H)
Weight	3.7kg

Resistance measuring error						
Voltage steps	250 V	500 V	1.0 kV	2.5 kV	5.0 kV	10.0 kV
$\pm(3\% \cdot Rx + 1d)$	1GΩ	2GΩ	4GΩ	10GΩ	20GΩ	40GΩ
$\pm(5\% \cdot Rx + 1d)$	10GΩ	20GΩ	40GΩ	0.1TΩ	0.2TΩ	0.4TΩ
$\pm(10\% \cdot Rx + 2d)$	100GΩ	200GΩ	0.4TΩ	1TΩ	2 TΩ	4TΩ
$\pm(25\% \cdot Rx + 2d)$	500GΩ	1TΩ	2TΩ	5TΩ	10TΩ	20TΩ