

SG50 Series

High Current Winding Resistance Meter



High performance is the key feature of these high current resistance meters based on the four point measuring technique. The instruments are especially designed and optimized for low resistance measurements in highly inductive circuits. The design responds to the needs of utilities and transformer manufacturers for a lightweight, portable unit with high accuracy and ease of operation.

The instruments are capable to measure the resistance of up to three serial windings simultaneously. The test object temperature is measured and resistance readings are automatic temperature compensated for copper and aluminum windings using a standard or customized reference temperature.

An intrinsically safe discharge circuit dissipates the stored magnetic energy rapidly after the test. The discharge process is continuously monitored and clear indicators show when it is safe to remove the test leads.

Complete field test reports can be generated on an optional printer. The report can also be sent over a **RS-232C** interface to a common PC or notebook. For factory use the system can be remote controlled by a host computer.

Feature

- Fully automated resistance measurement of virtually any size and type of windings
- · Resist arc. reliably of protection circuit is strong
- Unmatched speed, range and accuracy make these instruments the perfect tools for cost-effective and reliable maintenance measurements.
- Safety discharge circuit feature proofs and indicates the rapid discharge process to avoid any damage of personnel, test equipment and instrument
- Highest charging power guarantees fast saturation of even the largest power transformers within shortest time
- The data automatically print per 30 seconds
- Data storage of up to 2000 measurements
- Single/Double/Three channels measure at the same time
- Match the conversion software of temperature rise.
 the value of temperature rise can handle automatically
- Audio discharging warming, direct clearly, cut down the mistake operation

Applications

- Power Transformers
- ◆ Distribution Transformers
- ♦ Instrument Transformers
- Rotating Machines
- Bushings
- Cables
- Circuit Breakers



Technical Specification

	SG5008	SG5007	
Channel	1	1	
Output current	40A、20A、10A	20A、10A、5A	
Output voltage	40V		
	100μΩ~1Ω(40A)	200μΩ~2Ω(20A)	
Range	200μΩ~2Ω(20A)	400μΩ~4Ω(10A)	
	400μΩ~4Ω(10A)	800μΩ~8Ω(5Α)	
Accuracy	0.2%		
Resolution	0.1μΩ		
Winding measured	Y, \(\Delta \) or mixed		
	Power supply: AC220V±10%, 50Hz/60Hz		
Working environment	Working temperature: 0~40℃		
	Environment humidity: ≤90%RH no forming dew		
Dimension	530mm(L) ×440mm(W) ×180mm(H)		
Weight	17kg		

	SG5008T	SG5007T	
Channel	3	3	
Output current	40A、20A、10A	20A、10A、5A	
Output voltage	40V		
	100μΩ~1Ω(40A)	200μΩ~2Ω(20A)	
Range	200μΩ~2Ω(20A)	400μΩ~4Ω(10A)	
	400μΩ~4Ω(10A)	800μΩ~8Ω(5Α)	
Accuracy	0.2%		
Resolution	0.1μΩ		
Winding measured	Y, A or mixed		
	Power supply: AC220V \pm 10% , 50Hz/6	60Hz	
Working environment	Working temperature: 0∼40℃		
	Environment humidity: ≤90%RH no forming dew		
Dimension	530mm(L) ×440mm(W) ×180mm(H)		
Weight	40kg		



	SG5002	SG5003	
Channel	1	1	
Output current	10A、5A、1A、10mA、below10mA	5A、1A、100mA、below10mA	
Range	0.2 m Ω \sim 20Κ Ω	1m Ω \sim 20k Ω	
Accuracy	$0.2\%\pm2\mu\Omega$		
Resolution	0.1μΩ		
Winding measured	Y, Δ or mixed		
	Power supply: AC220V \pm 10% , 50Hz/60Hz Working temperature: 0 \sim 40 $^{\circ}\mathrm{C}$		
Working environment			
	Environment humidity: ≤90%RH no forming dew		
Dimension	395mm(L) ×240mm(W) ×250mm(H)		
Weight	10kg		

	SG5002T	SG5003T	
Channel	3	3	
Output current	10A、5A、1A、10mA、below10mA	5A、1A、100mA、below10mA	
Range	0.2 m Ω \sim 20Κ Ω	1mΩ~20kΩ	
Accuracy	0.2%±2μΩ		
Resolution	0.1μΩ		
Winding measured	Y, Δ or mixed		
	Power supply: AC220V \pm 10% , 50Hz/60Hz Working temperature: $0{\sim}40^{\circ}\!\!\mathrm{C}$		
Working environment			
	Environment humidity: ≤90%RH no forming dew		
Dimension	530mm(L) ×440mm(W) ×180mm(H)		
Weight	19kg		

For further information please contact:

SHANGHAI JIU ZHI ELECTRIC CO., LTD (Samgor Technology)

Add: No.500, Renmintang Rd., Caolu Town, Pudong, Shanghai, 201209, China

Tel: 86-21-58999552 58999556

Fax: 86-21-33901039
E-mail: info@samgor.com
Http:// www.samgor.com