

DIGITAL INSULATION TESTER

MG5000



APPLICATIONS AND FEATURES

This instrument is a High voltage Insulation resistance tester for use in measurement of Insulation Resistance of a power line and power equipment within the range of 600V under CAT.IV.

- Test voltage DC5000V/2500V/1000V/500V/250V
- Insulation Resistance up to 1TΩ
- Short circuit current up to 4mA
- Dielectric Absorption Ratio (DAR)
- Polarisation Index (PI)
- Auto discharge function
- Data hold(Auto)
- Auto power save: Power save about 10 minutes after the last operation

SPECIFICATIONS

Measuring range							
Test Voltage(DC)	250V	500V	1000V	2500V	5000V		
Range	0.0~104.9MΩ	0.0~99.9MΩ 80~1049MΩ	0.0~99.9MΩ 80~999MΩ 0.80~2.09GΩ	0.0~99.9MΩ 80~999MΩ 0.80~9.99GΩ 8.0~104.9GΩ	0.0~99.9MΩ 80~999MΩ 0.80~9.99GΩ 8.0~99.9GΩ	80~1000GΩ	1011~1199GΩ
Open circuit voltage	DC250V 0%~+20%	DC500V 0%~+20%	DC1000V 0%~+20%	DC2500V 0%~+20%	DC5000V 0%~+20%		
Accuracy	±5%+3			±20%			
Short circuit current				3mA±0.5mA 3mA~4mA			
Voltage measurement							
Range	AC : ±30~±1000V(50/60Hz)			DC : ±30~±1000V			
Accuracy	±2% +3dgt						
Measuring method	Average sensing						
Display	1200 counts						
Range selection	Auto range						
LCD	Bar graph : 36 points / DAR/PI value : 9.99 / Timer : 99:59(min : sec)						
Over display	DC voltage function : "O.L" is displayed and buzzer sounds Insulation function : "O.L" is displayed						
Sampling rate	3 times / sec						
Accuracy assurance temperature / humidity	23±5°C 75%RH or below No condensation						
Operating temperature / humidity	0°C~40°C 85%RH or below No condensation						
Storage temperature / humidity	-10°C~60°C 90%RH or below No condensation						
Operating environment	Altitude 2000m or less, environmental pollution degree II						
Power consumption	Approx. 10.8W(At 5000V/5MΩ range)						
Battery consumption	4 steps display "bAtt" mark lights when the internal battery's power is below approx. 7.5V						
Safety standards	IEC61010-1 CAT.III 1000V/CAT.IV 600V IEC61010-2-030, IEC61010-031, IEC61557-1,2						
IP rate	IP54						
Battery	LR14 x 8						
Size / Mass	H188 x W225 x D97mm / 1750g(Batteries included)						
Standard accessories included	Test lead(TL-5k) RED · Black · Green, Carrying case(C-MG5k), Instruction manual, Battery(LR14 x 8)						

A battery for monitoring has been installed prior to shipment from the factory. It may be discharged before the expiration of the described battery life. This battery is used to check the functions and performance of the product. Specifications and external appearance of the product described above may be revised for modification without prior notice.

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