

GLC-10000

Leakage Current Tester

FEATURES

- Suitable for Medical Electrical & General Electrical of Leakage Current Measurement
- 7" Touch Pane with Color LCD
- 12 Different Measurement Network to Simulate the Resistance of Human Body (Including IEC 60601-1:2020 3.2rd)
- The Measurement of Maximum Allowable Leakage Current is Up to 50mA
- External Terminal for Extension MD Connection
- MD OUT Terminal can be Connected to an Oscilloscope for Convenient Comparison of Measured Waveforms
- 30 Sets Memories for Test Parameter; 1000 Sets Memories for Measured Data.
- Test Parameter Export/Import Function Through USB Host
- USB Storage for Measurement Data/Screen Capture
- Various Standard Interfaces: RS-232C, USB Host & Device, LAN, Signal I/O and GPIB (Optional)

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GW INSTEK

Made to Measure Since 1975

GW Instek launches a new leakage current tester—GLC-10000, which features 12 simulated human impedance networks that comply with related safety regulations so as to conduct leakage current test for electric equipment under normal condition or single fault condition. These 12 simulated human impedance networks are comprised of networks for medical electric equipment and general electric and electronic equipment to ensure that the product design and manufacture are in compliance with requirements of safety regulations including IEC, EN, UL, etc.

GLC-10000 provides test requirements for most IT products, household appliances and other electronic and electric equipment, and even medical electronics in the measurement of leakage current (or touch current), including the required measurement network, measurement bandwidth of various current forms are all in compliance with the requirements of the latest version of the applicable regulations. Furthermore, in order to comply with the leakage current flow paths under different regulations, GLC-10000 provides 20 measurement options to meet the requirements of the old and latest versions of the standards.

GLC-10000 is equipped with a 7-inch TFT LCD touch screen, which makes the operation more convenient and fast, and the large screen allows setting information and test results to be displayed on the LCD at the same time, improving the readability of information observation. In addition, users can select the front socket output (10A max.) or the rear terminal block output (up to 20A) to measure the leakage current according to the current consumption of the DUT. 30 sets of internal memory can be used to store the measurement settings of users' products. In addition, 1000 sets of measurement results can be stored to conduct subsequent analysis.

For the rear panel configuration, GLC-10000 also provides a reserved MD external terminal block (EXT+/EXT-), and users can self-define the required simulated impedance networks (only applicable to parallel RC combination) to measure the leakage current to meet the requirements of new MD in future regulations. In addition, GLC-10000 provides a variety of standard interfaces, such as RS-232C, USB device, LAN and Remote I/O, and even GPIB (optional) to meet the needs of system control and data acquisition.

PANEL INTRODUCTION

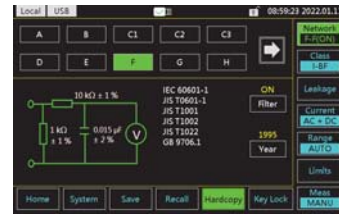
- 1. 7" Inch Touch Screen
- 2. Measuring Terminals
- 3. USB Host
- 4. Circuit Breaker
- 5. EUT AC Power Output Socket
- 6. External MD Module Connector
- 7. External BNC MD Output Port
- 8. RS-232 Port
- 9. USB Port
- 10. LAN Port
- 11. Signal I/O Connector
- 12. EUT AC Input Terminal
- 13. EUT AC Output Terminal
- 14. Switch for MD-F
- 15. Power Socket/Fuse Socket

A. SIMPLE AND INTUITIVE SYSTEM



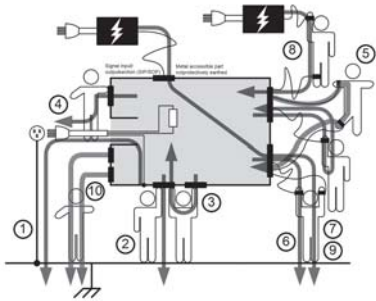
The color TFT touch screen makes operation intuitive and simple, whilst making it easier to observe test result.

B. VARIOUS MEASUREMENT NETWORK



Nine Measurement Network are available for measuring the leakage current of electrical and medical equipment.

C. VARIOUS LEAKAGE CURRENT MODE MEASUREMENT



Leakage current tests can be separated into 3 basic types: Earth Leakage current, Enclosure Leakage current and Patient Leakage current. The GLC-10000 complies with IEC, UL and other international electrical safety standards requiring leakage current measurement.

D. VARIETY OF STANDARD INTERFACES

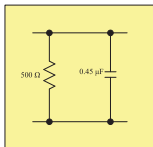


The variety of practical interfaces are equipped as standard making control convenient and flexible.

MEASUREMENT NETWORK (MD)

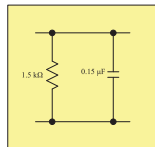
MD-A

UL1563



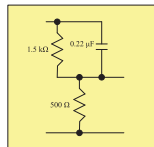
MD-B

UL1492/1310



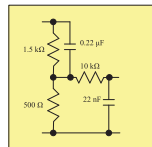
MD-C1

IEC60990/61010-1



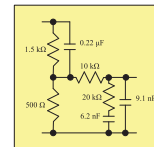
MD-C2

IEC60990/60598-1



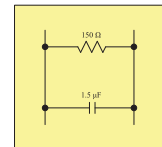
MD-C3

IEC60990/62368-1



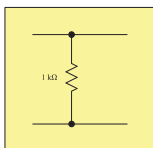
MD-D

IEC60598-1/62608-1



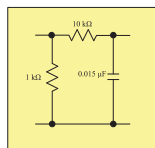
MD-E

General application



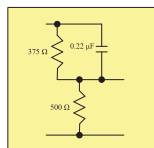
MD-F

IEC60601-1/UL2601-1



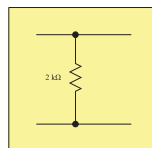
MD-G

IEC61010-1/GB4793.1



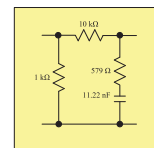
MD-H

IEC61010-1/62368-1



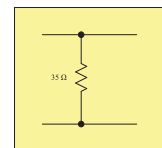
MD-I

JIS B8561/UL554NP



MD-PCC

MD - PCC



Note : The standard numbers that are listed are only example; the MD can be used with all applicable standards.

SPECIFICATIONS

Ranges	Range	Resolution	Accuracy		
DC					
50.00mA	4.00mA~50.00mA	10 μ A	$\pm(2\%rdg+6dgt)$		
5.000mA	0.400mA~5.000mA	1 μ A	$\pm(2\%rdg+6dgt)$		
500.0 μ A	40.0 μ A~500.0 μ A	0.1 μ A	$\pm(2\%rdg+6dgt)$		
50.00 μ A	4.00 μ A~50.00 μ A	0.01 μ A	$\pm 2.0\%fs$		
AC / AC+DC					
			0.1Hz $\leq f \leq$ 15Hz	15Hz $< f \leq$ 100kHz	100kHz $< f \leq$ 1MHz
50.00mA	4.00mA~50.00mA	10 μ A	$\pm(4.0\%rdg+10dgt)$	$\pm(2.0\%rdg+6dgt)$	$\pm(2.0\%rdg+10dgt)$
5.000mA	0.400mA~5.000mA	1 μ A	$\pm(4.0\%rdg+10dgt)$	$\pm(2.0\%rdg+6dgt)$	$\pm(2.0\%rdg+10dgt)$
500.0 μ A	40.0 μ A~500.0 μ A	0.1 μ A	$\pm(4.0\%rdg+10dgt)$	$\pm(2.0\%rdg+6dgt)$	$\pm(2.0\%rdg+10dgt)$
50.00 μ A	4.00 μ A~50.00 μ A	0.01 μ A	$\pm 4.0\%fs$	$\pm 2.0\%fs$	$\pm 2.0\%fs$
AC PEAK					
			15Hz $\leq f \leq$ 10kHz	10kHz $< f \leq$ 100kHz	100kHz $< f \leq$ 1MHz
75.0mA	5.0mA~75.0mA	100 μ A	$\pm(2.0\%rdg+6dgt)$	$\pm 5.0\%fs$	$\pm 15\%fs$
7.500mA	0.500mA~7.500mA	1 μ A	$\pm 2.5\%fs$	$\pm 5.0\%fs$	$\pm 15\%fs$
750.0 μ A	40.0 μ A~750.0 μ A	0.1 μ A	$\pm 4\%fs$	$\pm 5.0\%fs$	$\pm 20\%fs$
EUT Voltage/Current Monitor					
300V	85V~300V	0.1V	$\pm(5\%rdg+10dgt)$		
20A	0.5A~20A	0.1A	$\pm(2\%rdg+5dgt)$		
POWER SUPPLY					
For GLC-10000		AC 100V~240V \pm 10%, 50/60Hz; Power consumption : Max. 50VA			
For EUT IN		AC 100V~240V, 50/60Hz, 20A			
EUT OUT (Front)		AC 100V~240V, 50/60Hz, 10A			
EUT OUT (Rear)		AC 100V~240V, 50/60Hz, 20A			
INTERFACE					
RS-232C, USB host & device, LAN, Signal I/O and GPIB (Optional)					
DIMENSIONS & WEIGHT					
342 (W) x 133.87 (H) x 348.51 (D) mm; Approx. 7.5kg					

Specifications subject to change without notice. GLC-10000_E_D1BH

ORDERING INFORMATION

GLC-10000 Leakage Current Tester

ACCESSORIES

Power cord x 1, Test lead(GTL-207A) x 2, CD x 1 (Complete user manual), Alligator clips(GLC-01) x 1 (Red x 2/Black x 2), Foil probe(GLC-02) x 1, Power Cord for EUT (GLC-03) x 1, Input & output terminal cover (GLC-04) x 1

OPTIONAL

GLC-10KG1 GPIB Card

OPTIONAL ACCESSORIES

GTL-232 RS-232C Cable

GTL-240 USB Cable, USB 2.0, A-B Type (L Type), 1200mm

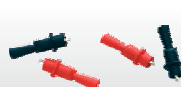
GTL-246 USB Cable, USB 2.0 A-B TYPE CABLE, 4P

GTL-248 GPIB Cable (2.0m)

GTL-207A Test Lead
Approx. 0.8m



GLC-01 Alligator Clips



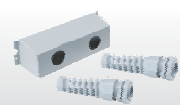
GLC-02 Foil Probe



GLC-03 Power Cord for EUT
Approx. 1.8m



GLC-04 Input & Output Terminal Cover



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