



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)

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



A. SIMPLE AND INTUITIVE SYSTEM



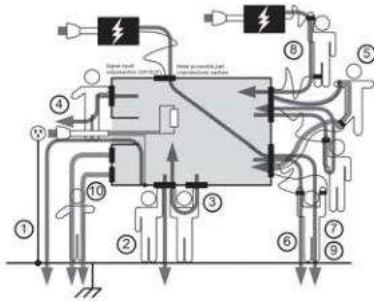
The color TFT touch screen makes operation intuitive and simple, whilst making it easier to observe test result.

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

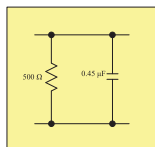


The variety of practical interfaces are equipped as standard making control convenient and flexible.

MEASUREMENT NETWORK (MD)

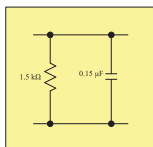
MD-A

UL1563



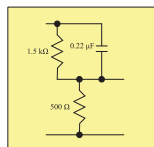
MD-B

UL1492/1310



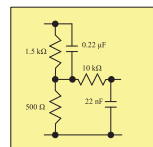
MD-C1

IEC60990/61010-1



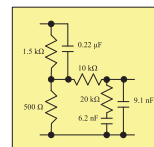
MD-C2

IEC60990/60598-1



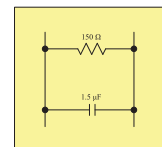
MD-C3

IEC60990/62368-1



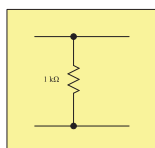
MD-D

IEC60598-1/62608-1



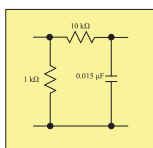
MD-E

General application



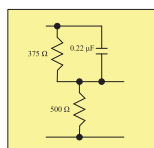
MD-F

IEC60601-1/UL2601-1



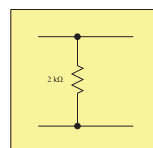
MD-G

IEC61010-1/GB4793.1



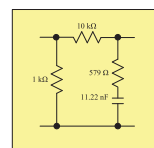
MD-H

IEC61010-1/62368-1



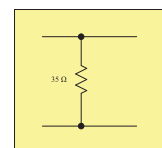
MD-I

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 μA	±(2%rdg+6dgt)		
	5.000mA	0.400mA~5.000mA	1 μA	±(2%rdg+6dgt)		
	500.0 μA	40.0 μA~500.0 μA	0.1 μA	±(2%rdg+6dgt)		
	50.00 μA	4.00 μA~50.00 μA	0.01 μA	±2.0%fs		
AC / AC+DC						
				0.1Hz≤f≤15Hz	15Hz<f≤100kHz	100kHz<f≤1MHz
	50.00mA	4.00mA~50.00mA	10 μA	±(4.0%rdg+10dgt)	±(2.0%rdg+6dgt)	±(2.0%rdg+10dgt)
	5.000mA	0.400mA~5.000mA	1 μA	±(4.0%rdg+10dgt)	±(2.0%rdg+6dgt)	±(2.0%rdg+10dgt)
	500.0 μA	40.0 μA~500.0 μA	0.1 μA	±(4.0%rdg+10dgt)	±(2.0%rdg+6dgt)	±(2.0%rdg+10dgt)
	50.00 μA	4.00 μA~50.00 μA	0.01 μA	±4.0%fs	±2.0%fs	±2.0%fs
AC PEAK						
				15Hz≤f≤10kHz	10kHz<f≤100kHz	100kHz<f≤1MHz
	75.0mA	5.0mA~75.0mA	100 μA	±(2.0%rdg+6dgt)	±5.0%fs	±15%fs
	7.500mA	0.500mA~7.500mA	1 μA	±2.5%fs	±5.0%fs	±15%fs
	750.0 μA	40.0 μA~750.0 μA	0.1 μA	±4%fs	±5.0%fs	±20%fs
EUT Voltage/Current Monitor						
	300V	85V~300V	0.1V	±(5%rdg+10dgt)		
	20A	0.5A~20A	0.1A	±(2%rdg+5dgt)		
POWER SUPPLY						
	For GLC-10000	AC 100V~240V±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		OPTIONAL	
GLC-10000	Leakage Current Tester	GLC-10KG1	GPIB Card
ACCESSORIES		OPTIONAL 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		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



Global Headquarters
GOOD WILL INSTRUMENT CO., LTD.
 No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan
 T +886-2-2268-0389 F +886-2-2268-0639
 E-mail: marketing@goodwill.com.tw

China Subsidiary
GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.
 No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China
 T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary
GOOD WILL INSTRUMENT (SEA) SDN. BHD.
 No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3, 11950 Bayan Baru, Penang, Malaysia
 T +604-6111122 F +604-6115225

Europe Subsidiary
GOOD WILL INSTRUMENT EURO B.V.
 De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS
 T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary
INSTEK AMERICA CORP.
 5198 Brooks Street Montclair, CA 91763, U.S.A.
 T +1-909-399-3535 F +1-909-399-0819
 Japan Subsidiary
TEXIO TECHNOLOGY CORPORATION.
 7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin Yokohama, Kohoku-ku, Yokohama, Kanagawa, 222-0033 Japan
 T +81-45-620-2305 F +81-45-534-7181
 Korea Subsidiary
GOOD WILL INSTRUMENT KOREA CO., LTD.
 Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga, Ace Hightech-City B/D 1Dong), Yeongduengpo-Gu, Seoul 150093, Korea.
 T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary
GW INSTEK INDIA LLP.
 No.2707/B&C, 1st Floor UNNATHI Building, E-Block, Sahakara Nagar, Bengaluru-560 092, India
 T +91-80-6811-0600 F +91-80-6811-0626

GW INSTEK
 Simply Reliable

