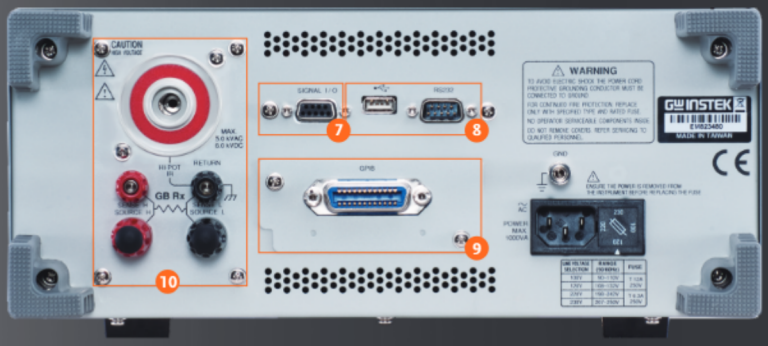
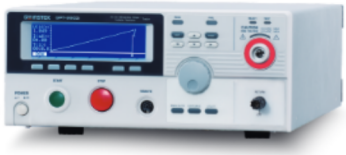
PANEL INTRODUCTION

CE | USB | RS-232 | GPIB | PC Software | Remote Terminal | Signal I/O | Rear-Panel Output | LabVIEW Driver

1. 240 x 64 Ice blue matrix LCD display, supporting a grater view of setting parameters and testing results
2. High intensity LED indicators to show the status of safety tester
3. Withstanding high voltage output for AC 5kV max. and DC 6kV max. in 2V per step; insulation resistance test from 50V~1000V in 50V per step
4. Quick selecting function keys, corresponding to the functions or parameters displayed on the screen
5. Remote terminal provides "start" and "stop" control by an external controller
6. High current output up to 30A ac for 4 wires Ground Bond testing
7. The Signal I/O port provides remote control "start" and "stop" functions and monitor the test status of the tester
8. USB and RS-232C communication ports facilitate the easy & convenient communication
9. GPIB communication is supported as optional
10. Rear Output Terminal (only GPT-9900 Series)





GPT-9904 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester
GPT-9903A AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester
GPT-9902A AC 500VA AC/DC Withstanding Voltage Tester
GPT-9901A AC 500VA AC Withstanding Voltage Tester

GPT-9804 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester
GPT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester
GPT-9802 AC 200VA AC/DC Withstanding Voltage Tester
GPT-9801 AC 200VA AC Withstanding Voltage Tester

SELECTION GUIDE

MODEL \ FUNCTION	AC	DC	IR	GB	SWEEP
GPT-9904	✓ ✲	✓	✓	✓	✓
GPT-9903A	✓ ✲	✓	✓		✓
GPT-9902A	✓ ✲	✓			✓
GPT-9901A	✓ ✲				✓
GPT-9804	✓	✓	✓	✓	
GPT-9803	✓	✓	✓		
GPT-9802	✓	✓			
GPT-9801	✓				

✲ Short Current >200mA

APPLICATIONS

- Safety Testing of Electrical Product in Manufacturing
  - Power Cord
  - Home Appliances
  - Information Technology Equipment
  - Medical Equipment
  - Household and Similar Electrical Appliances
  - Luminaires
  - Audio, Video and Similar Electronic Apparatus
- Quality Assurance Verification
- Safety Standard Compliance Pre-qualification in R&D

SPECIFICATIONS

		GPT-9800 Series	GPT-9900 Series
AC WITHSTANDING	Output-Voltage Range	0.050kV~ 5.000kV ac	0.050kV~ 5.000kV ac
	Output-Voltage Resolution	2V/step	2V/step
	Output-Voltage Accuracy	±(1% of setting + 5V) [no load]	±(1% of setting + 5V) [no load]
	Maximum Rated Load	200 VA (5kV/40mA)	500 VA (5kV/100mA)
	Maximum Rated Current	40mA (0.5kV< V≤5kV); 10mA (0.05kV≤V≤0.5kV)	100mA (0.5kV< V≤5kV); 10mA (0.05kV≤V≤ 0.5kV)
	Output-Voltage Waveform	Sine wave	Sine wave
	Output-Voltage Frequency	50Hz/60Hz selectable	50Hz/60Hz selectable
	Voltage Regulation	±(1% of rdg + 5V) [full load → no load]	±(1% of rdg + 5V) [full load → no load]
	Voltmeter Accuracy	±(1% of rdg + 5V)	±(1% of rdg + 5V)
	Current Measurement Range	0.001mA~40.0mA	0.001mA~100.0mA
	Current Best Resolution	0.001mA/0.01mA/0.1mA	0.001mA/0.01mA/0.1mA
	AC Current Measurement Accuracy	±(1.5% of rdg+30counts)when HI SET<1.11mA ±(1.5% of rdg+3counts)when HI SET≥1.11mA	±(1.5% of rdg+30counts)when HI SET<1.11mA ±(1.5% of rdg+3counts)when HI SET≥1.11mA
	Window Comparator Method	Yes	Yes
	ARC Detect	Yes	Yes
	RAMP (Ramp-Up Time)	0.1s~999.9s	0.1s~999.9s
	TIMER (Test Time)*	OFF, 0.5s~999.9s	OFF, 0.5s~999.9s
	Sweep Function*	NOT Support	Yes
	GND	ON/OFF	ON/OFF
DC WITHSTANDING	Output-Voltage Range	0. 050kV~6.000kV dc	0.050kV~6.000kV dc
	Output-Voltage Resolution	2V/step	2V/step
	Output-Voltage Accuracy	±(1% of setting + 5V) [no load]	±(1% of setting + 5V) [no load]
	Maximum Rated Load	50W(5kV/10mA)	100W(5kV/20mA)
	Maximum Rated Current	10mA(0.5kV< V≤6kV); 2mA (0.05kV≤V≤0.5kV)	20mA(0.5kV< V≤6kV); 2mA (0.05kV≤V≤0.5kV)
	Voltage Regulation	±(1% of rdg + 5V)[full load → no load]	±(1% of rdg + 5V)[full load → no load]
	Voltmeter Accuracy	±(1% of rdg + 5V)	±(1% of rdg + 5V)
	Current Measurement Range	0.001mA~10.0mA	0.001mA~20.0mA
	Current Best Resolution	0.001mA/0.01mA/0.1mA	0.001mA/0.01mA/0.1mA
	DC Current Measurement Accuracy	±(1.5% of rdg+30counts)when HI SET<1.11mA ±(1.5% of rdg+3counts)when HI SET≥1.11mA	±(1.5% of rdg+30counts)when HI SET<1.11mA ±(1.5% of rdg+3counts)when HI SET≥1.11mA
	Window Comparator Method	Yes	Yes
	ARC Detect	Yes	Yes
	RAMP (Ramp-Up Time)	0.1s~999.9s	0.1s~999.9s
	TIMER (Test Time)*	OFF, 0.5s~999.9s	OFF, 0.5s~999.9s
	Sweep Function*	NOT Support	Yes
	GND	ON/OFF	ON/OFF
INSULATION RESISTANCE	Output Voltage	50V~1000V dc	50V~1000V dc
	Output-Voltage Resolution	50V/step	50V/step
	Output-Voltage Accuracy	±(1% of setting +5V)[no load]	±(1% of setting +5V)[no load]
	Resistance Measurement Range	1MΩ~ 9500MΩ	0.001GΩ~ 50.00GΩ
	Test Voltage	Measurable Range / Accuracy	Measurable Range / Accuracy
	50V≤V≤450V	1 ~ 50MΩ: ±(5% of rdg + 1count) 51 ~ 2000MΩ: ±(10% of rdg + 1count)	0.001 ~ 0.050GΩ: ±(5% of rdg + 1count) 0.051 ~ 2.000GΩ: ±(10% of rdg + 1count)
	500V≤V≤1000V	1 ~ 500MΩ: ±(5% of rdg + 1count) 501 ~ 9500MΩ: ±(10% of rdg + 1count)	0.001 ~ 0.500GΩ: ±(5% of rdg + 1count) 0.501 ~ 9.999GΩ: ±(10% of rdg + 1count) 10.00 ~ 50.00GΩ: ±(20% of rdg + 1count)
	Window Comparator Method	Yes	Yes
	Output Impedance	600kΩ	600kΩ
	RAMP (Ramp-Up Time)	0.1s~999.9s	0.1s~999.9s
	TIMER (Test Time)	0.5s~999.9s	0.5s~999.9s
	GND	OFF (fix)	OFF (fix)
	Sweep Function*	NOT Support	Yes
GROUND BOND	Output-Current	03.00A~30.00A ac	03.00A~32.00A ac
	Output-Current Resolution	0.01A	0.01A
	Output-Current Accuracy	3A≤I≤8A:±(1% of rdg+0.2A), 8A< I≤30A:±(1% of rdg+0.05A)	3A≤I≤8A:±(1% of rdg+0.2A), 8A< I≤32A:±(1% of rdg+0.05A)
	Test-Voltage	6Vac max (open circuit)	6Vac max (open circuit)
	Test-Voltage Frequency	50Hz/60Hz selectable	50Hz/60Hz selectable
	Resistance Measurement Range	10mΩ~650.0mΩ	10mΩ~650.0mΩ
	Resistance Measurement Resolution	0.1mΩ	0.1mΩ
	Resistance Measurement Accuracy	±(1% of rdg + 2mΩ)	±(1% of rdg + 2mΩ)
	Window Comparator Method	Yes	Yes
	TIMER (Test Time)	0.5s~999.9s	0.5s~999.9s
	Sweep Function*	NOT Support	Yes
	Test Method	Four Terminal	Four Terminal
MEMORY	Single Step Memory	MANU : 100 blocks	MANU : 100 blocks
	Automatic Testing Memory	AUTO : 100 blocks, menu per auto : 16	AUTO : 100 blocks, menu per auto : 16
INTERFACE	Rear Output	NOT Support	Standard
	RS-232C	Standard	Standard
	USB	Standard	Standard
	GPIB	Option	Option
	Remote Terminal (Front)	Standard	Standard
	Signal I/O	Standard	Standard
DISPLAY		240 x 64 Ice Blue Dot matrix LCD	240 x 64 Ice Blue Dot matrix LCD
POWER SOURCE		AC100V/120V/220V/230V±10%, 50/60Hz	AC100V/120V/220V/230V±10%, 50/60Hz
DIMENSIONS & WEIGHT		330(W) x 148(H) x 452(D) mm Approx. 19kg max.	330(W)x148(H)x482(D)mm(GPT-9902A/9901A/9903A); 330(W)x148(H)x587(D)mm(GPT-9904); Approx. 27kg max.

* The sweep function and timer off can only be performed when the tester is in the special MANU mode.

Specifications subject to change without notice. PT-9000G3BH

ORDERING INFORMATION

GPT-9904	AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester
GPT-9903A	AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester
GPT-9902A	AC 500VA AC/DC Withstanding Voltage Tester
GPT-9901A	AC 500VA AC Withstanding Voltage Tester
GPT-9804	AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester
GPT-9803	AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester
GPT-9802	AC 200VA AC/DC Withstanding Voltage Tester
GPT-9801	AC 200VA AC Withstanding Voltage Tester

ACCESSORIES

Quick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, Remote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903A/9902A/9901A/9803/9802/9801, Test lead GHT-114 x1, GTL-115 x 1 for GPT-9904/9804

OPTION

Opt.1 GPIB card Opt.2 GSB-01(8CH H.V.)Multiplex Scanner Box
Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box

OPTIONAL ASSESSORIES

GHT-113	High Voltage Test Pistol	**GTL-247**	USB Cable, A-A type, approx. 1.8m
GHT-117	HV Adapter	**GTL-232**	RS-232C Cable, 9-pin Female to 9-pin null Modem for Computer
GHT-118	HV/GB Adapter	**GRA-417**	RACK Adapter Panel (19", 4U)
GHT-205	High Voltage Test Probe	**GRA-433**	RACK Adapter Panel (19", 4U) for GPT-9904 only
GTL-248	GPIB Cable, approx. 2m		

FREE DOWNLOAD

PC Software GPT-9000

Global Headquarters
GOOD WILL INSTRUMENT CO., LTD.
T +886-2-2268-0389 F +886-2-2268-0639

China Subsidiary
GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.
T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary
GOOD WILL INSTRUMENT (SEA) SDN. BHD.
T +604-6111122 F +604-6115225

Europe Subsidiary
GOOD WILL INSTRUMENT EURO B.V.
T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary
INSTEK AMERICA CORP.
T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary
TEXIO TECHNOLOGY CORPORATION.
T +81-45-620-2305 F +81-45-534-7181

Korea Subsidiary
GOOD WILL INSTRUMENT KOREA CO., LTD.
T +82-2-3439-2205 F +82-2-3439-2207

India Subsidiary
GW INSTEK INDIA LLP.
T +91-80-6811-0600 F +91-80-6811-0626

GW INSTEK
Simply Reliable

Website Facebook LinkedIn