



## GPT-9600 Series

### FEATURES

- 100VA AC Test Capacity
- 240 x 48 Ice Blue Dot Matrix LCD
- True RMS Current Measurement
- ARC Detection
- Zero Crossing Turn-on Operation
- PWM Switching Amplifier to Enhance the Power Efficiency and Reliable Testing
- Automatically Switching Input Source for World-wide Input Voltage
- Light Design and Easy to Operation

GW Instek launches new economical safety testers, the GPT-9600 Series, which offers an affordable solution for supporting routine tests of major items of the safety standards such as IEC, EN, UL, CSA, GB, JIS and other safety regulations.

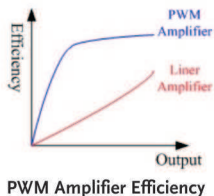
The GPT-9600 Series is built upon a platform of 100VA AC maximum power output. The GPT-9603 is a 3-in-1 model capable of performing AC withstanding, DC withstanding and insulation resistance tests. The GPT-9612 is capable of performing AC withstanding and insulation resistance tests. The GPT-9602 is capable of performing AC and DC withstanding tests, and GPT-9601 is able to perform AC withstanding test. The GPT-9600 Series is equipped with the high-efficiency PWM amplifier, which is the core of the platform design to impede the influence from the input AC voltage fluctuation and ensure a stable voltage output.

Following a tidy and easy-to-use design concept, the GPT-9600 Series renders users an intuitive operation environment by a simple and clear panel layout, a large LCD display and color LED indicators. The switching power supply, used as a universal input source, accommodates the power systems in most countries in the world. The GPT-9600 series, equipped with the same output voltage function as that of all GW Instek Safety Testers, indicates the expected output voltage before high voltage tests are applied. Furthermore, an AUTO mode, including test sequence selections of withstanding-then-insulation or insulation-then-withstanding, is designed for models carrying insulation Resistance test function to reduce the testing time of dual test items.

Other functions and features of GPT-9600 include: the zero crossing turn-on operation protects DUT from the impact of surge voltage output, the interlock function safeguards users from the hazardous shock of unintentional touch of the voltage output, a remote output on-off terminal in the front panel and a signal I/O port in the rear panel are provided as the means for remote start/stop control of the safety tester.

### High Efficiency and High Stability Output

The GPT-9600 Series, carrying a high-efficiency PWM amplifier design, generates output source up to 98% efficiency. This greatly reduces the energy loss from heat dissipation and therefore lowers the temperature within the cabinet. The suppression of temperature rise during heavy-duty operation of the tester significantly increases tester's reliability and service lifetime.



### Simply AUTO Mode

For models that include the Insulation Resistance test function; there is a simple AUTO mode (W-I or I-W) which allows the operator to run two test functions in sequence. The first test function can either be a withstanding voltage test followed by an insulation resistance test or vice versa, – thus eliminating the need to push the START button twice to run two separate tests.



### Simply AUTO Mode

### Friendly User Interface

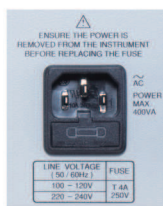
The 240 x 48 display clearly shows the applied voltage, test parameters, test conditions, measurement value and result on the screen at the same time. The real-time status update on the LCD display accompanied by the multi-colored LED status indicators on the front panel allow operators to have a full control of the test process to perform precession test and avoid unnecessary operation risks at the same time. The status indicator above the high voltage output terminal will automatically flash when an output is in place. In addition, the function keys arranged below the LCD display provide convenient operation that test functions can be easily changed by a single pressing.



Large LCD, High Intensity Indicators and Function Keys

### Support the Universal input voltage

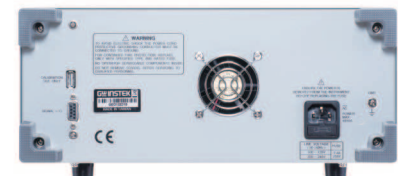
Additionally, the GPT-9600 series provides the universal input voltage range for operating equipment in countries with different electrical power standards. With the GPT-9600 series, the hustle of switching or selecting input voltage range can be left behind. Furthermore, 50Hz or 60Hz can be selected to provide a stable and appropriate test voltage without relying on the electrical environment conditions of input power so as to meet the test requirements.



Universal Input Voltage Range



Front



Rear Panel

### APPLICATIONS

- Information Tech. Equipment
- Consumer Product
- R.L.C Component
- Other Tests with AC/DC Withstanding Testing Lower than 20mAac or 5mAdc Cut-Off Current

## SPECIFICATIONS

<b>AC WITHSTANDING</b>	Output-Voltage Range	0.10kV~ 5.00kV ac	
	Output-Voltage Resolution	10V	
	Output-Voltage Accuracy	± (1.5% of setting + 2 counts) with no load	
	Maximum Rated Load	100VA(5kV/20mA)	
	Maximum Rated Current	20mA (0.5kV< V≤5kV); 5mA (0.1kV≤V≤ 0.5kV)	
	Output-Voltage Waveform	Sine wave	
	Output-Voltage Frequency	50Hz/60Hz selectable	
	Voltage Regulation	±(1.5% + 2 counts) [full load → no load]	
	Voltmeter Accuracy	±(1.5% of rdg + 2 counts)	
	Current Measurement Range	0.01mA~20.0mA	
	Current Best Resolution	0.01mA/0.1mA	
	Current Measurement Accuracy	±(2.0% of rdg+5 counts)when HI SET<1.00mA ; ±(2.0% of rdg+3counts)when HI SET≥1.00mA	
	Current Judgment Accuracy	±(3.0% of setting+5 counts)when HI SET<1.00mA ; ±(3.0% of setting+3counts)when HI SET≥1.00mA	
	Window Comparator Method	Yes	
	ARC Detect	Yes	
	RAMP (Ramp-Up Time)	0.1s fixed	
	TIMER (Test Time)	OFF, 1s~180s	
	GND	ON	
<b>DC WITHSTANDING</b>	Output-Voltage Range	0.10kV~6.00kV dc	
	Output-Voltage Resolution	10V	
	Output-Voltage Accuracy	± (1.5% of setting + 2 counts) with no load	
	Maximum Rated Load	25W(5kV/5mA)	
	Maximum Rated Current	6mA(0.5kV< V≤6kV); 2mA (0.1kV≤V≤0.5kV)	
	Voltage Regulation	±(1.5% + 2 counts)[full load → no load]	
	Voltmeter Accuracy	±(1.5% of rdg + 2 counts)	
	Current Measurement Range	0.01mA~6.00mA	
	Current Best Resolution	0.01mA	
	Current Measurement Accuracy	±(2.0% of rdg+5 counts)when HI SET<1.00mA;±(2.0% of rdg+3counts)when HI SET≥1.00mA	
	Current Judgment Accuracy	±(3.0% of setting+5 counts)when HI SET<1.00mA ; ±(3.0% of setting+3counts)when HI SET≥1.00mA	
	Window Comparator Method	Yes	
	ARC Detect	Yes	
	RAMP (Ramp-Up Time)	0.1s fixed	
	TIMER (Test Time)	OFF, 1s~180s	
	GND	ON	
<b>INSULATION RESISTANCE</b>	Output Voltage	50V, 100V, 250V, 500V, 1000V dc	
	Output-Voltage Accuracy	±(3.0% of setting +1 count)[no load]	
	Resistance Measurement Range	1MΩ~ 2000MΩ	
	Test Voltage	Measurable Range	Accuracy
	50V/100V/250V	1 ~ 50MΩ 51 ~ 2000MΩ	±(5% of rdg + 2MΩ) ±(10% of rdg + 2MΩ)
	500V/1000V	1 ~ 500MΩ 501 ~ 2000MΩ	±(5% of rdg + 2MΩ) ±(10% of rdg + 2MΩ)
	Window Comparator Method	Yes	
	Output Impedance	600kΩ	
	RAMP (Ramp-Up Time)	0.1s fixed	
	TIMER (Test Time)	OFF, 1s~180s	
	GND	OFF (fixed)	
<b>TEST MODE *</b>	Single	ACW, DCW, IR	
	Auto	AC-IR, IR-AC, DC-IR, IR-DC	
<b>INTERFACE</b>	Remote Terminal (Front)	Standard	
	Signal I/O	Standard	
<b>DISPLAY</b>		240 x 48 Ice Blue Dot matrix LCD	
<b>POWER SOURCE</b>		AC 100V~120V/220V~240V±10% , 50/60Hz	
<b>POWER COMSUMPTION</b>		400VA Max.	
<b>DIMENSIONS &amp; WEIGHT</b>		330(W)x148(H)x385(D)mm Approx. 9kg max.	

\* The available "Test Mode" depends on selected model

Specifications subject to change without notice. PT-9600GD2DH

### ORDERING INFORMATION

**GPT-9603** AC 100VA AC/DC Withstanding Voltage/Insulation Resistance Tester  
**GPT-9612** AC 100VA AC Withstanding Voltage/Insulation Resistance Tester  
**GPT-9602** AC 100VA AC/DC Withstanding Voltage Tester  
**GPT-9601** AC 100VA AC Withstanding Voltage Tester

### ACCESSORIES

Quick Start Guide x 1, Power cord x 1, CD x 1 (complete user manual),  
 Interlock Key x 1, Remote terminal male plug x 1, Test lead GHT-114 x 1

### OPTIONAL ASSESSORIES

**GHT-113** High Voltage Test Pistol  
**GRA-417** RACK Adapter Panel (19", 4U)  
**GHT-205** High Voltage Test Probe

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  
 E-mail: marketing@instek.com.cn

Malaysia Subsidiary

#### GOOD WILL INSTRUMENT (M) SDN. BHD.

27, Persiaran Mahsuri 1/1, Sunway Tunas,  
 11900 Bayan Lepas, Penang, Malaysia  
 T +604-6309988 F +604-6309989  
 E-mail: sales@goodwill.com.my

U.S.A. Subsidiary

#### INSTEK AMERICA CORP.

3661 Walnut Avenue Chino, CA 91710, U.S.A.  
 T +1-909-5918358 F +1-909-5912280  
 E-mail: sales@instekamerica.com

Japan Subsidiary

#### TEXIO TECHNOLOGY CORPORATION.

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin Yokohama,  
 Kohoku-ku, Yokohama, Kanagawa, 222-0033 Japan  
 T +81-45-620-2303 F +81-45-534-7181  
 E-mail: info@texio.co.jp

Korea Subsidiary

#### GOOD WILL INSTRUMENT KOREA CO., LTD.

#1406, Ace Hightech-City B/D 1Dong,  
 Mullae-Dong 3Ca 55-20, Yeongduengpo-Gu, Seoul, Korea  
 T +82-2-3439-2205 F +82-2-3439-2207  
 E-mail: gwinstek@gwinstek.co.kr

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[www.gwinstek.com](http://www.gwinstek.com)