

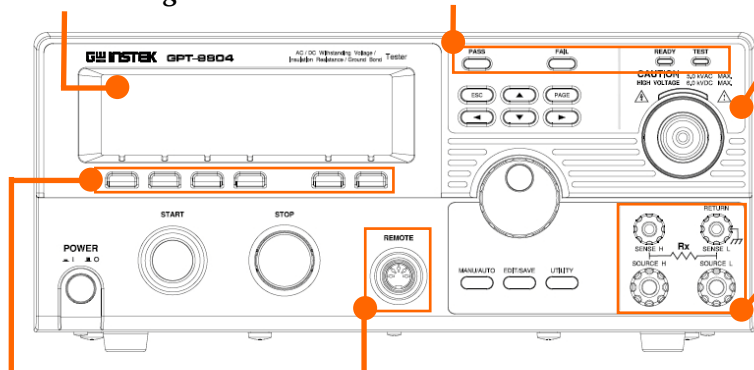
Key Features

- 200VA AC Test Capacity
- 240x64 Ice Blue Dot matrix LCD
- Manual/Auto Mode
- Function Key for quick selecting
- High intensity flash for Caution & Status indication
- Safety INTERLOCK function
- Zero Crossing Turn-on Operation
- Controllable Ramp-up Time
- True RMS Current Measurement
- High resolution: 1uA for measuring current, 2V for setting voltage
- PWM switching amplifier to enhance the power efficiency and reliable testing
- Max. 100 memory block for test condition (step) setting. And each step can be named individually.
- Remote terminal on the front panel for “start”, “stop” and “remote active check”
- Interface : RS-232C, USB device, Signal I/O and GPIB (optional)



240 x 64 Ice Blue Matrix LCD display, supporting a greater view of setting parameters and testing results.

High Intensity LED Indicators to show the status of safety tester.



High Voltage Output for AC 5kV, DC 6kV or 50V~1000V in 50V per step for Insulation Resistance testing.

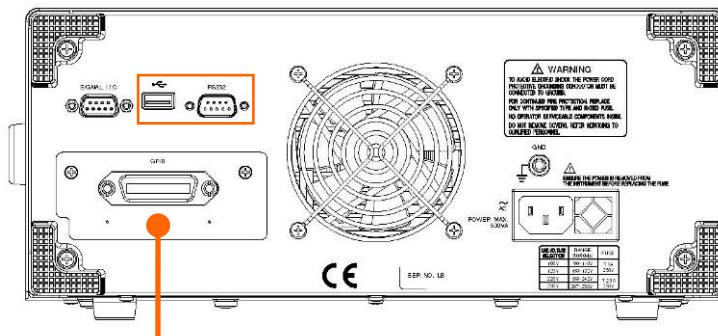
High Current Output up to 30A ac for 4 wires Ground Bond testing.

Quickly selecting Function keys, corresponding to the functions or parameters display on the screen.

Remote Terminal provides “start” and “stop” control by an external controller.

The Signal I/O port provides remotely “start” and “stop” function and monitor the test status of the tester.

USB and RS-232 communication ports facilitate the easy & convenient communication.



GPIB communication is supported as optional.

Application and Target Markets

■ *Production and Compliance Testing of electrical products*

- Power Cord
- House Appliances
- Information Technology Equipment
- Medical Equipment
- 240 x 64 matrix LCD display and high intensity status indicators for clear and easy observation.
- Variety safe considerations, fast cutoff / protective Interlock key/ discharge after testing, to ensure the safety of operator.
- PWM amplifier design to ensure the precision tests of the DUT and the reliability and service lifetime of tester.
- Various control methods, manual / remote terminal / signal I/O, to fit with the actual requirement of workplace environment.
- Testing condition reserved up to 100 sets memory for multi-production.
- Up to 16 reserved testing conditions can be combined as sequence testing.
- Remote Communication ports, RS-232C/ USB device/ GPIB(optional), retrieving test data and results is convenient via a PC connection.

■ *Quality Assurance Verification*

- 240 x 64 matrix LCD display and high intensity status indicators for clear and easy observation.
- Various control methods, manual/remote terminal/signal I/O, to fit with the actual requirement of workplace environment.
- Testing condition reserved up to 100 sets memory for multi-production.
- Up to 16 reserved testing conditions can be combined as sequence testing.
- Remote Communication ports, RS-232C/ USB device/ GPIB(optional), retrieving test data and results is convenient via a PC connection for further analysis.

■ *Development validation*

- 240 x 64 matrix LCD display and high intensity status indicators for clear and easy observation.
- High testing performance, 2V/step for withstanding output voltage adjustment and 50V/step for insulation resistance voltage output setting, to verify the capability of electrical product or component.
- Remote Communication ports, RS-232C/ USB device/ GPIB(optional), retrieving test data and results is convenient via a PC connection for further analysis.

GPT-9800 series Specification

Environment



Note

- To operate the GPT-9800 series over the specific temperature range may cause damage to the circuit. And, do not use the GPT-9800 series in a place where strong magnetic or electric field exists.

Warranty Environment 15°C to 35°C, Humidity ≤70% (no condensation)

Operation Environment 0°C to 40°C, Humidity ≤70% (no condensation)

Storage Environment -10°C to 70°C, Humidity ≤85% (no condensation)

Installation Location Indoors at an amplitude of up to 2000m

General



Note

- The specifications apply when the GPT-9800 series are powered on for at least 30 minutes at 15°C~35°C.

Display 240 x 64 Ice Blue dot matrix LCD

Memory 100 memory blocks each for AUTO and MANU mode

Interface RS232C, USB device, Signal I/O and GPIB (option)

Power Source AC 100 V / 120 V / 220 V / 230 V ±10%

Power Line Frequency 50/60Hz

Power Consumption Max 500VA

Dimensions 330(W) x 150(H) x 460(D) mm

Weight Approx. 15kg max. for GPT-9803/9802/9801
Approx. 19kg max. for GPT-9804

AC Withstanding Voltage [1]

Output-Voltage Range [2] 0.100kV~ 5.000kV

Output-Voltage Resolution 2V/step

Output-Voltage Accuracy ± (1% of setting + 5V) with no load

Maximum Rated Load [3] 200 VA (5kV/40mA)

Maximum Rated Current 40mA (0.5kV < V ≤ 5kV)
10mA (0.1kV ≤ V ≤ 0.5kV)

Output-Voltage Waveform Sine wave

Output-Voltage Frequency 50 Hz / 60 Hz selectable

Voltage Regulation ± (1% reading + 5V) [Maximum rated load ->no load]

Voltmeter Accuracy ± (1% of reading + 5V)

Current Measurement Range 0.001mA~40.0mA

Current Best Resolution 0.001mA(0.001mA~0.999mA)
0.01mA(01.00mA~09.99mA)
0.1mA(010.0~040.0mA)

Current Measurement Accuracy ±(1.5% of reading + 30uA)

Window Comparator Method Yes

ARC Detect Yes

RAMP (Ramp-Up Time) 0.1s~999.9s

TIMER (Test Time) [4] OFF, 0.5s~999.9s

GND RETURN/GUARD

[1] Applicable to all models.

[2] The maximum adjustable voltage to AC 5.100kV.

[3] Output Limitation in AC Withstanding Voltage Testing as below.

	Upper Current	Pause	Output Time
AC	30mA ≤ I ≤ 40mA	At least as long as the output time	Approx. 240 seconds
	0.001mA ≤ I < 30mA	Not necessary	Continuous output possible

[4] The timer can only be turned off when the tester is in special MANU mode (MANU=***-000)

DC Withstanding Voltage [1]

Output-Voltage Range [2]	0.100kV~ 6.000kV
Output-Voltage Resolution	2V/step
Output-Voltage Accuracy	± (1% of setting + 5V) with no load
Maximum Rated Load [3]	50W (5kV/10mA)
Maximum Rated Current	10mA (0.5kV < V ≤ 6kV) 2mA (0.1kV ≤ V ≤ 0.5kV)
Voltage Regulation	± (1% of reading + 5V) [Maximum rated load ->no load]
Voltmeter Accuracy	± (1% reading + 5V)
Current Measurement Range	0.001mA~ 10.0mA
Current Best Resolution	0.001mA(0.001mA~0.999mA) 0.01mA(01.00mA~09.99mA) 0.1mA(010.0mA)
Current Measurement Accuracy	±(1.5% of reading + 30uA)
Window Comparator Method	Yes
ARC Detect	Yes
RAMP (Ramp-Up Time)	0.1s~999.9s
TIMER (Test Time) [4]	OFF, 0.5s~999.9s
GND	RETURN/GUARD

[1] Applicable to GPT-9804/9803/9802.

[2] The maximum adjustable voltage to DC 6.100kV.

[3] Output Limitation in DC Withstanding Voltage Testing as below.

	Upper Current	Pause	Output Time
DC	$0.001\text{mA} \leq I \leq 10\text{mA}$	Not necessary	Continuous output possible

[4] The timer can only be turned off when the tester is in special MANU mode (MANU=***-000)

Insulation Resistance [1]

Output Voltage	50V~1000V	
Output-Voltage Resolution	50V/step	
Output-Voltage Accuracy	± (1% of setting +5V)	
Resistance Measurement Range	1MΩ~ 9500MΩ	
Test Voltage	Measure Range	Accuracy
50V ≤ V < 500V	1~50MΩ	± (5% of reading + 1 MΩ)
	51~2000MΩ	± (10% of reading + 1 MΩ)
500V ≤ V ≤ 1000V	1~500MΩ	± (5% of reading + 1 MΩ)
	501~9500 MΩ	± (10% of reading + 1 MΩ)
Voltage Regulation	± (1% reading + 5V) [Maximum rated load ->no load]	
Window Comparator Method	Yes	
RAMP (Ramp-Up Time)	0.1s~999.9s	
TIMER (Test Time)	1s~999.9s	

[1] Applicable to GPT-9804/9803

Ground Bond [1]

Output-Current	03.00A~30.00A
Output-Current Resolution	0.01A
Output-Current Accuracy	3A ≤ I ≤ 8A : ±(1% of reading + 0.2A) 8A < I ≤ 30A : ±(1% of reading + 0.05A)
Test-Voltage	6Vac max.
Test-Voltage Frequency	50Hz/60Hz selectable
Resistance Measurement Range	0.1mΩ~ 650.0mΩ
Resistance Measurement Resolution	0.1mΩ
Resistance Measurement Accuracy	± (1% of reading + 2 mΩ)
Window Comparator Method	Yes
TIMER (Test Time)	0.5s~999.9s
Test Method	Four terminal test mode

[1] Applicable to GPT-9804 only

Product Outlook

GPT-9804



GPT-9803/9802/9801



Real Panel

(For all models with optional GPIB)

Ordering information

- 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

Included Accessories

- Quick Start Guide x 1,
- CD x1(completed user manual)
- Power cord x 1,
- Interlock key x 1,
- Remote terminal male plug x 1,
- Test lead GHT-114 x 1 for GPT-9803/9802/9801
- Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9804

Option

- Opt.1 GPIB card

Optional Accessories

- GHT-113 High Voltage Test Pistol
- GHT-205 High Voltage Test Probe
- GTL-232 RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer
- GTL-247 USB Cable, A-A type, approx. 1.8m
- GTL-248 GPIB Cable, approx. 2m
- GRA-402 RACK Adapter Panel (19", 4U)

Replacement Information

New Model	Replacement
GPT-9804 : AC+DC+IR+GB	GPI-745A
GPT-9803 : AC+DC+IR	GPI-735A and GPI-725A
GPT-9802 : AC+DC	GPT-715A
GPT-9801 : AC	GPT-705A

After GPT-9800 series launched, the GPT/GPI-700A series is going to be phase-out. The above table shows the replacement between models. For difference between this two series, please refer to the comparison below.

Red indication for the better features



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