

# AC/DC/IR/GB ELECTRICAL SAFETY TESTER

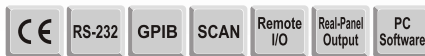


## GPT-705A/715A & GPI-725A/735A

Patent No : 074646



## GPI-745A



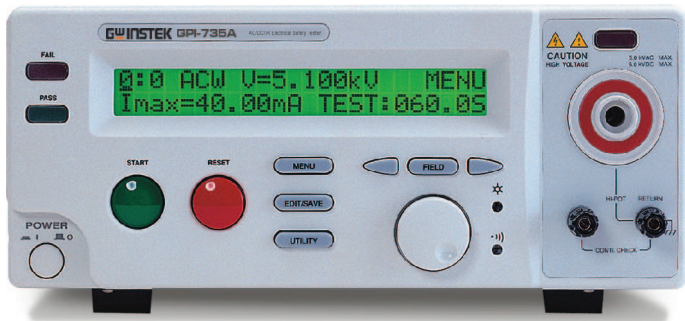
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## FEATURES

- \* 200VA AC Test Capacity
- \* AC/DC Withstanding Voltage Test & Insulation Resistance Test
- \* True RMS Cut-Off Current Measurement
- \* Arc Detection
- \* Zero Crossing Turn-On Operation Switch
- \* Linear Amplifier with Feedback Control to Provider High Regulated Voltage Output
- \* Controllable Ramp-Up Time
- \* Output Voltage and Current Limit Could be set Without HV Output
- \* Output Voltage Adjustable During Test Period
- \* 9 pins Remote Control for START, RESET, and Test Result Output
- \* Automatic FAIL Indicator of Alarm Lamp and Buzzer
- \* Scanner Box for Automatic Test (Option)
- \* 42A Ground Bond Test (GPI-745A only)

The GPT/GPI-700A Series is a universal Safety Tester, compliant to all major safety standards such as UL, CSA, JIS, and BS. The operation interface has been carefully designed making it user-friendly and fully automatic, to ensure safety and to produce reliable test results. The advanced and versatile GPT/GPI-700A Series can be used in production lines, workshops, laboratories, and test sites. Users can select from 5 models according to the testing requirement - starting from the simple 705A for AC Withstanding, through middle range GPI-725A for AC Withstanding + Insulation Resistance, up to the most advanced GPI-745A for AC Withstanding + DC Withstanding + Insulation Resistance + Ground Bond. Each model has remote control terminal and programming function which deliver fast and reliable test results.

SPECIFICATIONS	
<b>AC HI-POT</b>	
Voltage Range	0.100kV ~ 5.000kV
Voltage Resolution	5V/step
Voltage Regulation (Line and Load)	1% + 5 V
Voltage Accuracy	± (1% rdg ± 10V)
Max. Current Sourcing	30mA ~ 40mA (above 500V, maximum test time:180sec.) 0.10mA ~ 29.99mA (above 500V, continuous test) 0.10mA ~ 10mA (below 500V, continuous test)
Current Limit	0.10 ~ 40mA, 0.02mA/step
Current Accuracy	± (1% rdg ± 80 μA)
<b>DC HI-POT (GPT-715A/GPI-735A/GPI-745A)</b>	
Voltage Range	0.100kV ~ 6.000kV
Voltage Resolution-Output	5V/step
Voltage Regulation (Line and Load)	1% + 5 V
Voltage Accuracy	± (1% rdg ± 10V) (above 500V)
Max. Current Sourcing	0.10mA ~ 10.00mA (above 500V, continuous test) 0.10mA ~ 2mA (below 500V, continuous test)
Current Limit	0.10mA ~ 10mA, 0.01mA/step
Current Accuracy	± (1% rdg ± 50 μA)
<b>INSULATION RESISTANCE (GPI-725A/GPI-735A/GPI-745A)</b>	
DC Voltage	50V/100V/500V/1000V
Resistance Range	1~9900MΩ(500V, 1000V); 1~2000MΩ(50V, 100V)
Resistance Accuracy (50V/100V)	1MΩ~50MΩ : ± (5% rdg ± 1count) 51MΩ~200MΩ : ± (10% rdg ± 1count) 201MΩ~2000MΩ : ± (20% rdg ± 1count)
Resistance Accuracy (500V/1000V)	1MΩ~500MΩ : ± (5% rdg ± 1count) 501MΩ~2000MΩ : ± (10% rdg ± 1count) 2001MΩ~9500MΩ : ± (20% rdg ± 1count)
<b>GROUND BOND (GPI-745A)</b>	
Voltage Range	Max. 8V (DC)
Current Range	3~42A
Current Resolution	0.02A
Current Accuracy	± 1% of reading ± 0.2A (3A~8A); ± 1% of reading ± 50mA (9A~42A)
Ground Bond Resistance Test	0~600mΩ
Resistance Resolution	0.1mΩ
Resistance Accuracy	± 1% of reading ± 3mΩ
Test Method	Four terminal test mode
<b>CONTINUITY CHECK (GPT-705A/715A &amp; GPI-725A/735A)</b>	
Output Current Range	0.1A (DC)
Compliance Voltage Range	10%
Resolution	0.1Ω @ 1Ω
<b>RAMP TIME &amp; TEST TIME</b>	
AC Hi-Pot Ramp/Test Time	000.0 ~ 999.9 seconds
DC Hi-Pot Ramp/Test Time	000.0 ~ 999.9 seconds
Insulation Resistance Test Time	001.0 ~ 999.9 seconds
Ground Bond Test Time	000.0 ~ 999.9 seconds
Continuity Check Test Time	000.0 ~ 999.9 seconds
<b>ARC DETECT</b>	
Detect Current	40 level (1 ~ 40mA)
<b>MEMORY</b>	
	Groups : 10, steps per group : 16
<b>INTERFACE</b>	
Remote I/O	Standard
RS-232C	Standard
Scan	Standard
GPIB	Option
Real Panel Output	Standard (only GPI-745A)
<b>POWER SOURCE</b>	
	AC100V/120V/220V/230V ± 10% , 50/60Hz
<b>DIMENSIONS &amp; WEIGHT</b>	
	330(W) x 149(H) x 446(D) mm, Approx. 14kg



**GPI-735A**

**Rear Panel**



**ORDERING INFORMATION**

- GPI-745A** AC 200VA AC/DC Withstanding Voltage/Insulation/Ground Bound Electrical Safety Tester
- GPI-735A** AC 200VA AC/DC Withstanding Voltage / Insulation Electrical Safety Tester
- GPI-725A** AC 200VA AC Withstanding Voltage / Insulation Electrical Safety Tester
- GPT-715A** AC 200VA AC/DC Withstanding Voltage Electrical Safety Tester
- GPT-705A** AC 200VA AC Withstanding Voltage Electrical Safety Tester

**ACCESSORIES :**

User manual x 1 , Power cord x 1  
 GHT-105A x 1 for GPT-705A/GPT-715A/GPI-725A/GPI-735A ; GHT-105A x 1, GTL-115A x 1 for GPI-745A

**Option**

- Opt.01 GPIB Interface (Factory Installed)
- Opt.04 HSB-001-1 Scanner Box, 8CH HV and 8CH GB
- Opt.05 HSB-001-2 Scanner Box, 16CH HV

**Option Accessories**

- GHT-107A** Clip High Voltage Probe
- GHT-108** High Voltage Wiring Cable for HSB-001-1
- GHT-109** Ground Bond Wiring Cable or HSB-001-1
- GHT-110** Communication Cable for HSB-001-1/HSB-001-2
- GHT-113** High Voltage Test Pistol
- GRA-402** Rack Adapter Panel (19",4U)
- GRA-406** Rack Adapter Panel (19",3U) for HSB-001-1/HSB-001-2
- GTL-232** RS232C Cable, 9-pin Female to 9-pin, null Modem for Computer

NOTE : GPT/GPI-7 x 5A Series can control only one scanner box.

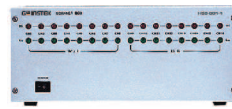
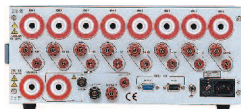
**SELECTION GUIDE**

MODEL	FUNCTION	AC	DC	IR	GB
<b>GPT-705A</b>		✓			
<b>GPT-715A</b>		✓	✓		
<b>GPI-725A</b>		✓		✓	
<b>GPI-735A</b>		✓	✓	✓	
<b>GPI-745A</b>		✓	✓	✓	✓

**SCANNER BOX**

**HSB-001-1**

8CH HV + 8CH GB  
 For: GPT/GPI-700A Series

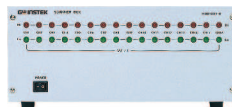
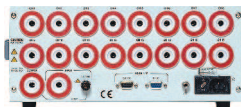


(Rear Panel)

( Front Panel)

**HSB-001-2**

16CH HV  
 For: GPT/GPI-700A Series



Can be installed into rack by adding two option handles.

**GHT-108**

**High Voltage Wiring Cable**  
 For: HSB-001-1



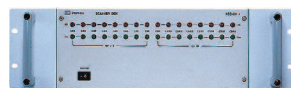
**GHT-109**

**Ground Bond Wiring Cable**  
 For: HSB-001-1



**GRA-406 Rack Adapter Panel**

For: HSB-001-1, HSB-001-2  
 Rack Mounting (19",3U)



**GHT-113**

**HIGH VOLTAGE TEST PISTOL**

- \* Housing of unbreakable plastic
- \* Operation voltage 10kVDC/8kVAC max.
- \* Connecting via highly flexible safety cable
- \* Power supply line approx. 2m
- \* Wear-resistant tungsten test probe tip
- \* Teflon sleeve for resistance to burning

For : GPT/GPI-800A Series, GPT/GPI-700A Series



**GHT-107A Clip High Voltage Probe**

For : GPT/GPI-800A Series, GPT/GPI-700A Series

