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

Patent No : 074646



GPI-745A

CE | RS-232 | GPIB | SCAN | Remote I/O | Real-Panel Output | PC Software

Patent No:074646

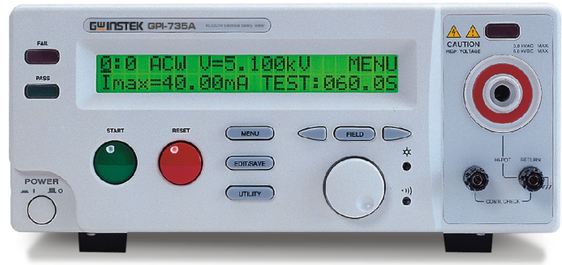
The GPT/GPI-700A Series is a universal Safety Tester, compliant to all major safety standards such as UL, CSA, JIS, and BS. The operation interface has been carefully designed making it user-friendly and fully automatic, to ensure safety and to produce reliable test results. The advanced and versatile 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.

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)**

SPECIFICATIONS

AC HI-POT	
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 ± 80μA)
DC HI-POT (GPT-715A/GPI-735A/GPI-745A)	
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 ± 50μA)
INSULATION RESISTANCE (GPI-725A/GPI-735A/GPI-745A)	
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)
GROUND BOND (GPI-745A)	
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
CONTINUITY CHECK (GPT-705A/715A & GPI-725A/735A)	
Output Current Range	0.1A (DC)
Compliance Voltage Range	10%
Resolution	0.1Ω @ 1Ω
RAMP TIME & TEST TIME	
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
ARC DETECT	
Detect Current	40 level (1 ~ 40mA)
MEMORY	
	Groups : 10, steps per group : 16
INTERFACE	
Remote I/O	Standard
RS-232C	Standard
Scan	Standard
GPIB	Option
Real Panel Output	Standard (only GPI-745A)
POWER SOURCE	
AC100V/120V/220V/230V±10% , 50/60Hz	
DIMENSIONS & WEIGHT	
330(W) x 149(H) x 446(D) mm, Approx. 14kg	



GPI-735A

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
GPT-705A	✓			
GPT-715A	✓	✓		
GPI-725A	✓		✓	
GPI-735A	✓	✓	✓	
GPI-745A	✓	✓	✓	✓

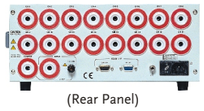
SCANNER BOX

HSB-001-1
8CH HV + 8CH GB
For: GPT/GPI-700A Series
CE

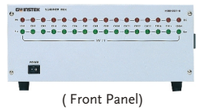




HSB-001-2
16CH HV
For: GPT/GPI-700A Series
CE



(Rear Panel)



(Front Panel)

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)



Rear Panel



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



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

Patent No : 074646



GPI-745A

CE | RS-232 | GPIB | SCAN | Remote I/O | Real-Panel Output | PC Software

Patent No:074646

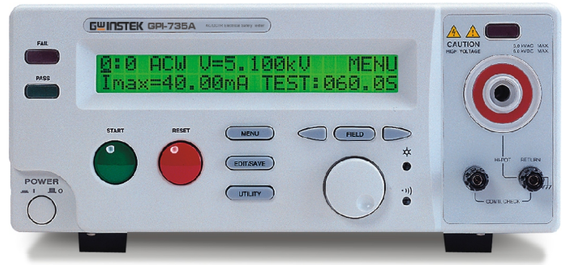
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Users can select from 5 models according to the testing requirement - starting from the simple 705A for AC Withstanding, through middle range GPI-725A for AC Withstanding + Insulation Resistance, up to the most advanced GPI-745A for AC Withstanding + DC Withstanding + Insulation Resistance + Ground Bond. Each model has remote control terminal and programming function which deliver fast and reliable test results.

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)**

SPECIFICATIONS

AC HI-POT	
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 ± 80μA)
DC HI-POT (GPT-715A/GPI-735A/GPI-745A)	
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 ± 50μA)
INSULATION RESISTANCE (GPI-725A/GPI-735A/GPI-745A)	
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)
GROUND BOND (GPI-745A)	
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
CONTINUITY CHECK (GPT-705A/715A & GPI-725A/735A)	
Output Current Range	0.1A (DC)
Compliance Voltage Range	10%
Resolution	0.1Ω @ 1Ω
RAMP TIME & TEST TIME	
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
ARC DETECT	
Detect Current	40 level (1 ~ 40mA)
MEMORY	
	Groups : 10, steps per group : 16
INTERFACE	
Remote I/O	Standard
RS-232C	Standard
Scan	Standard
GPIB	Option
Real Panel Output	Standard (only GPI-745A)
POWER SOURCE	
AC100V/120V/220V/230V±10% , 50/60Hz	
DIMENSIONS & WEIGHT	
330(W) x 149(H) x 446(D) mm, Approx. 14kg	



GPI-735A

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
GPT-705A	✓			
GPT-715A	✓	✓		
GPI-725A	✓		✓	
GPI-735A	✓	✓	✓	
GPI-745A	✓	✓	✓	✓

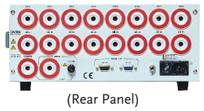
SCANNER BOX

HSB-001-1
8CH HV + 8CH GB
For: GPT/GPI-700A Series
CE

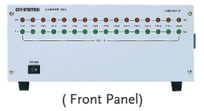




HSB-001-2
16CH HV
For: GPT/GPI-700A Series
CE



(Rear Panel)



(Front Panel)

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)



Rear Panel



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



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