

# **GPT-9000 Series**

**Electrical Safety Tester** 



### FEATURES

- 500VA and 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 : 1µA 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" and "Stop" Control by External
- Interface : RS-232C, USB Device, Signal I/O and GPIB (Optional)



## A Solid Foundation for Reliable, Safe and Practical Safety Compliance Testing.

GWInstek is launching a new safety tester family, the GPT-9900 Series, with 500VA maximum output capacity to the market. The family of two, including GPT-9904 and GPT-9903, come joining the GPT-9800 series, which carries 200VA output capacity, to serve the market with higher power demands for the safety tests of electronic products and components. The GPT-9000 Series supports the major test items among all the needed for the compliance of the safety standards such as IEC, EN, UL, CSA, GB, JIS and other safety regulations.

The GPT-9900 Series is built upon a platform of AC 500VA maximum power output. The GPT-9904 is a 4-in-1 model capable of performing AC withstanding, DC withstanding, insulation resistance and ground bond tests, whereas the GPT-9903 is a 3-in-1 model capable of performing AC withstanding, DC withstanding and insulation resistance tests. The GPT-9900 Series safety tester follows every good feature and advantage of the GPT-9800 Series. The high-efficiency PWM amplifier is the core of GPT-9900 Series platform design to impede the influence from the voltage fluctuation of input AC source. The output voltage is automatically cut off (within 150  $\mu$  s) upon the detection of an abnormal output voltage or a trip of current limits during test to protect the operator from hazardous injury. The GPT-9900 Series automatically discharges the DUT after each test to eliminate excessive voltage that remains on the DUT.

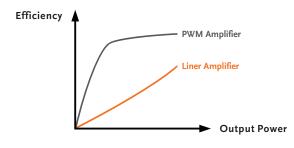
Following a tidy and easy-to-use design concept, the GPT-9900 Series is equipped with a simple & clear panel layout, a high resolution dot matrix LCD display, and color LED indicators, allowing operators to interpret measurement results easily and quickly. In the role as the complement of 200VA safety testers, the GPT-9900 Series is designed upon a higher power platform to enhance all major test functions, including AC withstanding (AC 5kV/100mA), DC withstanding (DC 6kV/20mA), insulation resistance (DC 50V ~ 1000V/50G $\Omega$  max.) and ground bond (AC 32A max./650m $\Omega$  max.) tests, with high-power measurement capabilities. Further more, the test duration, ramp up time and upper/lower limits of the output voltage are fully-adjustable to accommodate a wide variety of safety tests with accurate measurement results. The "Sweep" function of the GPT-9900 Series is able to display the test results point by point all through the testing period to form a trace graph. This graphic display performs the characteristic verification of a DUT through observing the parameter response to the changes of the applied voltage or current or testing time. On the graph a movable marker is available to get the parameter reading on the specific point of user's interest.

Other significant functions and features of the GPT-9900 Series include the rear panel output for system applications, the open-circuit detection to ensure proper connections of apparatus for ground bond test, 100 sets of memory to save and recall the panel settings for individual or sequential tests, a remote output on-off terminal in the front panel and a signal I/O port in the rear panel provided as the means for remote start/stop control of the safety tester, and RS-232C, USB and GPIB (optional) interfaces available for PC remote control and test result logging.



The GPT-9900 Series has a unique sweep function to show the trace graph of test results of the device under test. The test readings are recorded point by point according to the setting of the applied test voltage or current and the testing duration (ramp-up time + timer) to form a trace of parameter response. On this sweep graph, users can use a moveable cursor to locate the point of specific time or specific amount of applied source (voltage or current) within test period to know the measurement result of this point. It helps users to verify the changes of measured parameter (current or resistance) all thorough the test process, instead of just obtaining one final value at the end.

#### B. HIGH EFFICIENCY AND HIGH STABILITY OUTPUT



#### **PWM Amplifier Efficiency**

Unlike the conventional safety tester design that uses variable voltage transformer and class AB amplifier to provide testing voltage, the GPT-9900 Series, carrying a high-efficiency PWM amplifier design, generates output source up to 98% efficiency. This greatly reduces the amount of power loss to heat and therefore lowers the temperature within the cabinet of the GPT-9900 Series. The suppression of temperature rise during heavy-duty operations of the tester significantly increases its reliability and service lifetime. In addition, as PWM amplifier is comparatively more resistant to the fluctuations of input power voltage, a stable high-voltage output with less than 1% regulation is provided by the GPT-9900 Series to perform precision tests of the DUT.

#### HIGH ACCURACY AND HIGH RESOLUTION TESTING PERFORMANCE



**High Adjustment & Measurement Resolution** 

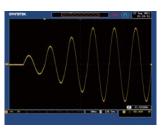
In order to provide high accuracy testing for production test, regulation compliance, and characteristic verification, the withstanding test voltage (AC 5kV/DC 6kV) of the GPT-9900 Series can be adjusted in 2V steps, while the current measurement can be done with 1  $\mu$  A resolution and  $\pm(1.5\%+30\,\mu$  A) accuracy to enable small leakage current measurements of the products or the components. In addition, the test voltage of insulation resistance of the GPT-9900 Series can be adjusted in 50V steps within the DC output range from 50V to 1kV, carrying a measurement

accuracy of  $\pm$ (10% of reading +1 count) at full scale (2000M  $\Omega$  /9.999G $\Omega$ )

and  $\pm$ (15% of reading +1 count) at full scale (50.00G $\Omega$ ). This provides the flexibility for performing Insulation Resistance (IR) measurements under variable levels of applied voltage. As the majority of safety regulations need an AC source for ground bond testing, the GPT-9900 Series provides 6Vac voltage (open circuit) and 3A~32Aac current for ground bond test. Furthermore, open circuit detection (via SOURCE H, SENSE H and SOURCE L terminals) for ground bond test is also provided to check whether the test apparatus is properly connected before the start of a test. This is to ensure the ground bond test is done accurately without any unnoticeable misconnection of the test leads and the test terminals.

With these capabilities, the user is able to perform various safety tests and verifications with high flexibility, accuracy and confidence.

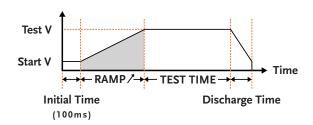
#### D. SAFETY GUARDING THROUGHOUT THE TESTING PERIOD



#### Zero-Crossing Operation

Once the GPT-9900 Series is turned on, the protection functions to protect operator and DUT are always in operation throughout the testing period. When the power is turned on, the GPT-9900 Series immediately goes through the self-check procedures to ensure that all test functions are performed under normal conditions, as the first protection function being applied.

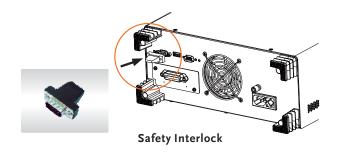
The second protection function is activated once the "Start" (output) button is pressed. At the first moment of start up, the GPT-9900 will send a detection voltage (~100V) during the initialization period (100ms) to check whether the DUT has any short circuit due to poor insulation before the high voltage is applied. This is to prevent high voltage or current from returning to the DUT during the test time. To protect DUT from insulation breakdown caused by the rapid increase of test voltage



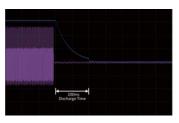
#### **Output Voltage Variation in One Test Cycle**

at power-on and avoid flashover or arcing phenomena that could affect the test results, the GPT-9900 Series has a Zero Crossing Turn-On feature, which ensures the output always starts from the zero crossing of a sine wave. Moreover, the adjustable voltage ramp-up time ( $0.1s \sim 999.9s$ ) allows the test voltage to slowly rise to the set test voltage to reduce the risk of damaging DUT during mandatory production testing.

Furthermore, after the voltage has ramped to the set test voltage, the GPT-9900 will continue monitoring the voltage and cut off power output once any irregularity is detected. This provides both the safety tester and the operator with a high level protection, which allows the test to be done in a safe and accurate manner.



The GPT-9900 Series also offers multiple protection designs to ensure operator safety in operating the safety tester. The interlock function provides the hardware key protection for voltage output. When the interlock function is activated, the testing voltage will present at the output ONLY when the dedicated interlock key is attached to the Signal I/O port on the rear side. When the test is not intended to executed, removing the interlock key can inhibit the voltage output to prevent the hazard of high voltage output. Except connecting with the key, two inputs of the Signal I/O port can be connected alone to a senor switch



Fast Cutoff in 150µs

installed in safety test system. If there is any unexpected object is detected to intrude into the system, the output is disabled and thus prevents the operator from exposure to hazardous voltages/currents. In addition, the GPT-9900 Series can quickly cut off the high voltage output within 150µs when the test has completed, the high/low limits have been reached or the emergent stop caused by an abnormal situation. Lastly, when a test has stopped, the unit also automatically discharges the voltage across the DUT to reduce the risk of injury to operator.

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**High Intensity Indicators** 

The 240 x 64 LCD displays not only the setting parameters but also the test conditions, measurement values and DUT inspection results (PASS or FAIL) in a legible pattern. The LED indicators in different colors alert the operator to the status of the safety tester to avoid any possible risk.



Large LCD and Function Keys

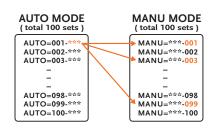
For example, the status indicator sitting above the high voltage output terminal will automatically blink when a high voltage presents at output. In addition, the function keys arranged below the LCD display provide convenient operation that test setup can be easily done by fewer key punches.

#### CONVENIENT MANUAL AND AUTOMATED TEST



#### Variety of Control Methods

In order to comply with all safety regulations, the GPT-9900 series also offers a large number of memory locations (100 sets in total) to store a variety of test conditions. When a test condition is saved to one of the 100 fixed memory locations, a unique test file name (up to 12 characters) can also be assigned to its memory location. For example, the test file name "IEC61010AH" (IEC61010 AC Withstanding test) can saved and recalled for future use. Any test conditions that have been previously stored can be used for a single test or combined together for automatic testing- eliminating the need to perform a series of tests manually.



#### AUTO Testing include Multiple MANU Processing

In addition to using the START/STOP buttons on the front panel to control the safety tester, the GPT-9900 Series also provides a remote terminal for connection to an external remote controller and a signal I/O port on the rear panel for connection to a PLC interface for actuator control. Furthermore with RS-232C and USB as standard (GPIB optional) for all the models in the GPT-9900 Series, retrieving test data and results is convenient via a PC connection.

#### PANEL INTRODUCTION

- 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-9903 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance 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

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#### SELECTION GUIDE

FUNCTION	AC	DC	IR	GB	SWEEP
GPT-9904	√ *	$\checkmark$	1	1	1
GPT-9903	√ *	$\checkmark$	$\checkmark$		$\checkmark$
GPT-9903A	√ *	$\checkmark$	$\checkmark$		$\checkmark$
GPT-9902A	√ *	$\checkmark$			$\checkmark$
GPT-9901A	√ *				$\checkmark$
GPT-9804	$\checkmark$	$\checkmark$	1	1	
GPT-9803	1	$\checkmark$	$\checkmark$		
GPT-9802	1	$\checkmark$			
GPT-9801	$\checkmark$				

#### 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

\* Short Current >200mA

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Resistance Measurement Range         10m, Check S0, Dm, Check S0, Dm							
Resistance Measurement Resolution Resistance Measurement Accuracy Window Comparator Method TiMER (Test Time) Sweep Function <sup>a</sup> Test Method     0.1mQ (% of rdg + 2mQ) % es     0.1mQ (% of rdg + 2mQ) % es     0.1mQ (% of rdg + 2mQ) % es       IEMORY     Single Step Memory Automatic Testing Memory Mine Net Control Memory Mine Standard Action/1202/1202/1202/2020/100/1202/1202/202/100/1202/1202/100/1202/1202/100/1202/1202/100/1202/			'				
Resistance Messurement Accuracy Window Comparator Method     +(% of rdg + 2mΩ) Yes     +(% of rdg + 2mΩ) Yes       Dispert     Sige Step Memory Automatic Testing Memory Bisplay     MANU : 100 blocks MANU : 100 blocks, mem per auto : 16 AUTO : 100 blocks Bindard Standard Standard Standard Standard Standard Standard Standard Standard Standard AC100V/120V/220V/230V;230V;210V,220V/230V;210V;220V/230V;210V;220V/230V;210V;220V/230V;220V/230V;210V;220V/230		Ŭ					
Window Comparator Method     Yes       TIMER (Test Time)     0.55-999.95       Single Step Memory     NOT Support       Automatic Testing Memory     MANU : 100 blocks       Automatic Testing Memory     MANU : 100 blocks, menu per auto : 16       MARU : 100 blocks     MANU : 100 blocks, menu per auto : 16       MARU : 100 blocks     MANU : 100 blocks, menu per auto : 16       MARU : 100 blocks     MANU : 100 blocks, menu per auto : 16       MARU : 100 blocks     MANU : 100 blocks, menu per auto : 16       VITERFACE     Rear Output Rescould USB CPIB       Remote Terminal (Front)     Standard       Standard     Standard       OWER SOURCE     AC100V/120V/220V/230V/210% - 50/60Hz       INMENSIONS & WEIGHT     330(W) x 148(H) x 452(D) mm       ASUDY 148(H):452(D) mm     330(W) x 148(H):452(D) mm       ASUDY 148(H):452(D) mm     330(W) x 148(H):452(D) mm       PT-9901 AC SOUVA AC/DC Withstanding Voltage/Insulation Resistance Tester     PT-9902 AC SOUVA AC/DC Withstanding Voltage/Insulation Resistance Tester       PT-9901 AC SOUVA AC/DC Withstanding Voltage/Insulation Resistance Tester     PT-9902 AC SOUVA AC/DC Withstanding Voltage/Insulation Resistance Tester       PT-9903 AC SOUVA AC/DC Withstanding Voltage/Insulation Resistance Tester     FT-9800 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester       PT-9904 AC SOUVA AC/DC Withstanding Voltage/Insulation Resistance Tester     FT-9802 AC 200VA AC/							
IMAGE (Fest Time) Sweep Function* Test Method     0.5s-999.9s NOT Support Four Terminal     0.5s-999.9s Four Terminal       IEMORY     Single Step Memory Automatic Testing Memory     MANU :100 blocks, menu per auto :16     MANU :100 blocks, AUTO :100 blocks, menu per auto :16       NTERFACE     Rear Output Rest 2020 USB CPIB Remote Terminal (Front) Standard     Standard Standard     Standard Standard       ISPLAY     240 x 64 lce Blue Dot matrix LCD     240 x 64 lce Blue Dot matrix LCD       OWER SOURCE     AC100V/120V/220V/230V±10%, 50/60Hz     AC100V/120V/20V/230V±10%, 50/60Hz       IMENSIONS & WEIGHT     330(W) x 148(H) x 452(D) mm Approx. 19kg max.     Specifications subject to change without notice.       PT-9904 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903 AC 200VA AC/DC Withst							
Sweep Function <sup>6</sup> Test Method         NOT Support Four Terminal         Yes Four Terminal           IEMORY         Single Step Memory Automatic Testing Memory         MANU : 100 blocks AUTO : 100 blocks, menu per auto : 16         MANU : 100 blocks AUTO : 100 blocks, menu per auto : 16           VTERFACE         Rear Output Standard         Standard Standard         Standard           VITERFACE         Rear Output Standard         Standard         Standard           VITERFACE         Rear Output Standard         Standard         Standard           VITERFACE         Rear Output Standard         Standard         Standard           VISPLAY         240 x 64 lce Blue Dot matrix LCD         240 x 64 lce Blue Dot matrix LCD         240 x 64 lce Blue Dot matrix LCD           OWER SOURCE         AC100V/120V/220V/230V210% x, 50/60Hz         AC100V/120V/220V/220V/230V210% x, 50/60Hz         AC100V/120V/220V/220V/210% x, 50/60Hz           VIMENSIONS & WEIGHT         330(W) x 148 (H) x 452 (D) mm         330(W) x 148 (H) x 452 (D) mm         330(W) x 148 (H) x 452 (D) mm           PT-9904         AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         Specifications subject to change without notice         PT-9000C           PT-9901A         AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         GPTION         Opt1         Opt1         Opt1         GPIB card         Opt2							
Item and the second		Sweep Function*	NOT Support		Yes		
Automatic Testing Memory         AUTO : 100 blocks, menu per auto : 16         AUTO : 100 blocks, menu per auto : 16           ITERFACE         Not Support IS 2207 (PIB CPIB Permote Terminal (Front) Signal I/O         Not Support Standard Standard Standard         Standard Standard Standard         Standard Standard           ISPLAY         240 x 64 ice Blue Dot matrix LCD         240 x 64 ice Blue Dot matrix LCD         240 x 64 ice Blue Dot matrix LCD           OWER SOURCE         Actiony/1209/2209/2309/210%, 50/60Hz         330(W) x 148(H) x 452(D) mm Approx. 19kg max.         330(W)x 148(H) x 452(D) mm Approx. 19kg max.         Actiony/1209/2209/2309/210%, 50/60Hz           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-9000C           PT-9904         AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester PT-9903         OPTION         Opti. 1 GPIB card         Opt.1 GPIB card         Opt.2 GSB-01(8CH H.V.)/Multiplex Scanner Box           PT-9902A AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         GRI-1113         High Voltage Tester         GRI-251         CPIB-USB-HS (High Spe CHT-1117 HV Adapter CRA-117 RACK Adapter Panel (19' CHT-1118         GRI-251         CPIB-USB-HS (High Spe CHT-1117 HV Adapter SC390VA AC/DC Withstanding Voltage Tester         GRI-231         CPIB-USB-HS (High Spe CHT-1117 HV Adapter SC390VA AC/DC Withstanding Voltage Tester         GRI-231         CPIB-USB-HS (High S							
NTERFACE       Rear Output NS 232C USB CPIB Remote Terminal (Front) Signal I/O       NOT Support Standard Standard       Standard Standard         ISPLAY       CPIB Remote Terminal (Front) Signal I/O       240 x 64 (ce Blue Dot matrix LCD       240 x 64 (ce Blue Dot matrix LCD         DWER SOURCE       AC100V/120V/220V/230V±10%, 50/60Hz       AC100V/120V/220V/230V±10%, 50/60Hz         IMENSIONS & WEIGHT       330(W) x 148(H) x 452(D) mm       330(W)x148(H) x 452(D) mm         Priperious       330(W) x 148(H) x 452(D) mm       330(W)x148(H) x 452(D) mm         Priperious       330(W) x 148(H) x 452(D) mm       330(W)x148(H) x 452(D) mm         Priperious       330(W) x 148(H) x 452(D) mm       330(W)x148(H) x 452(D) mm         Priperious       Composition       Standard         Priperious       Composition       Standard         Standard       Standard       Standard         Standard       Standard<	EMORY			er auto : 16		per auto : 16	
RS-232C <sup>+</sup> CPIB     Standard Option     Standard Option     Standard Option       ISPLAY     240 x 64 lcc Blue Dot matrix LCD     240 x 64 lcc Blue Dot matrix LCD       OWER SOURCE     Ac100V/120V/220V/230V±10%, 50/60Hz     Ac100V/120V/220V/230V±10%, 50/60Hz       IMENSIONS & WEIGHT     330(W) x 148(H) x 452(D) mm     330(W)x148(H)x587(D)mm(CPT-9902A/9901A)9904); 330(W)x148       PT-9902A ACS DOVA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9803 AC 200VA AC/DC Withstanding Voltage Tester     OPTIONAL ASSESSORIES       CHT-113 High Voltage Test Pistol CTL-251 CPIB-USB-HS (High Spe CHT-113 High Voltage Test Pistol CTL-251 CPIB-USB-HS (High Spe CHT-205 High Voltage Test Pistol CTL-251 CPIB-USB-HS (High Spe CHT-212 SI BG/DUGAE Test Pistol CTL-251 CPIB-USB-HS (High Spe CHT-213 VIBS Cable, A-A type, approx. 1.8m CHL-							
USB CPIB Remote Terminal (Front) signal I/O     Standard Option Standard     Standard Standard       ISPLAY     240 x 64 (ce Blue Dot matrix LCD     240 x 64 (ce Blue Dot matrix LCD       OWER SOURCE     AC100V/120V/220V/230V±10%, 50/60Hz     AC100V/120V/220V/230V±10%, 50/60Hz       IMENSIONS & WEIGHT     330(W) x 148(H) x 452(D) mm     330(W) x 148(H) x 452(D) mm       MENSIONS & WEIGHT     330(W) x 148(H) x 452(D) mm     330(W) x 148(H) x 452(D) mm       PT-9904     AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester PT-9903     Specifications subject to change without notice.     PT-9000C       PT-9904     AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903     Option Standard     Specifications subject to change without notice.     PT-9000C       PT-9904     AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903     Option Standard     Specifications subject to change without notice.     PT-900C       PT-9903     AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester PT-9903     Option Standard     Specifications subject to change Visual Box Option     Specifications Standard       PT-9904     AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Cround Bond Tester PT-9803     CHT-113 High Voltage Test Pistol     GTL-251 GPIB-USB-HS (High Spe GRA-417 RACK Adapter Panel (19' CHT-113 High Voltage Test Pistol       CCESSORIES     Uick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, mult Modern for Computer	INTERFACE	RS-232C	Standard		Standard		
Remote Terminal (Front) Signal I/O         Standard Standard Standard         Standard Standard           ISPLAY         240 x 64 ice Blue Dot matrix LCD         240 x 64 ice Blue Dot matrix LCD         240 x 64 ice Blue Dot matrix LCD           OWER SOURCE         AC100V/120V/220V/230V±10%, 50/60Hz         AC100V/120V/220V/230V±10%, 50/60Hz         AC100V/120V/220V/230V±10%, 50/60Hz           IMENSIONS & WEIGHT         330(W) x 148 (H) x 452(D) mm         330(W) x 148 (H) x 452(D) mm         330(W) x 148 (H) x 452(D) mm           Approx. 19kg max.         Specifications subject to change without notice.         PT-9007           PT-9904         AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         Specifications subject to change without notice.         PT-9000C           PT-9903         AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         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         Opt.3 GSB-02(26CH H.V./2CH G.B.)Multiplex S							
Signal I/O       Standard       Standard         ISPLAY       240 x 64 Ice Blue Dot matrix LCD       240 x 64 Ice Blue Dot matrix LCD       240 x 64 Ice Blue Dot matrix LCD         OWER SOURCE       AC100V/120V/220V/230V±10%, 50/60Hz       AC100V/120V/220V/230V±10%, 50/60Hz       330(W)x148(H)x537(D)mm(CPT-9903/9904); 330(W)x148         IMENSIONS & WEIGHT       330(W) x148(H) x 452(D) mm       330(W)x148(H)x537(D)mm(CPT-9903/9904); 30(W)x148       482(D)mm(CPT-9902A/9901A); Approx. 27kg max.         'he 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-9000C         NCDERING INFORMATION       PT-9904 AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.1       CPIB card         PT-9903 AC 500VA AC/DC Withstanding Voltage Tester       Opt.3       CSB-01(8CH H.V./Multiplex Scanner Box         PT-9903A AC 200VA AC/DC Withstanding Voltage Tester       Opt.3       CSB-01(8CH H.V.//2CH G.B.)Multiplex Scanner Box         PT-9803 AC 200VA AC/DC Withstanding Voltage Tester       CH3000000000000000000000000000000000000							
DWER SOURCE       AC100V/120V/220V/230V±10%, 50/60Hz       AC100V/120V/220V/230V±10%, 50/60Hz         IMENSIONS & WEIGHT       330(W) x 148(H) x 452(D) mm       330(W)x148(H)x587(D)mm(GPT-9903/9904); 330(W)x148         he 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-9002A         PT-9904       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.1       GPIB card         PT-9903A       AC 500VA AC/DC Withstanding Voltage Fester       Opt.1       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9903A       AC 200VA AC/DC Withstanding Voltage Insulation Resistance Tester       Opt.1       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9903A       AC 200VA AC/DC Withstanding Voltage Insulation Resistance Tester       Opt.1       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance Tester       OPTIONAL ASSESSORIES       GHT-113 High Voltage Test Prose         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester       GRA-417 RACK Adapter Panel (19'         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester       GHT-113 High Voltage Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester       GHT-113 High Voltage Tester         PT-9801       AC 200VA AC/DC Withstanding Voltage Tester       GTL-			Standard		Standard		
IMENSIONS & WEIGHT       330(W) x 148(H) x 452(D) mm       330(W) x148(H) x537(D)mm(GPT-9903/9904); 330(W)x148(H) x537(D)mm(GPT-9903/9904); 330(W)x148(H) x537(D)mm(GPT-9903/9904); 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-9002A         PT-9904       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.1       GPIB card       Opt.3       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9902A AC 500VA AC/DC Withstanding Voltage Tester       Opt.3       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box       Opt.1       GPIB card         PT-9902A AC 200VA AC/DC Withstanding Voltage Tester       MAX       GHT-113 High Voltage Tester       GRA-417 RACK Adapter Panel (19')         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance Tester       GHT-113 High Voltage Tester       GRA-417 RACK Adapter Panel (19')         PT-9801       AC 200VA AC/DC Withstanding Voltage Tester       GHT-205 High Voltage Tester       GRA-417 RACK Adapter Panel (19')         PT-9801       AC 200VA AC/DC Withstanding Voltage Tester       GTL-232 RS-323C Cable, 9-pin Female to 9-pin, null Modem for Computer         GTL-232       K314 Guida x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, more terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/       SCIA Guida GHT-114 x 1, GTL-115 x 1 for GPT-9903/9903A/9902A/9901A/9803/ <t< td=""><td>ISPLAY</td><td></td><td>240 x 64 Ice Blue Dot matrix</td><td>LCD</td><td>240 x 64 Ice Blue Dot matri</td><td>x LCD</td></t<>	ISPLAY		240 x 64 Ice Blue Dot matrix	LCD	240 x 64 Ice Blue Dot matri	x LCD	
Approx. 19kg max.       482 (D)mm(GPT-9902A/9901A/9903A); 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-9002A         PT-9903       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.1       GPIB card         PT-9903A       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.2       GSB-01(8CH H.V.)Multiplex Scanner Box         PT-9903A       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.3       GSB-02(6CH H.V./Multiplex Scanner Box         PT-9903A       AC 200VA AC/DC Withstanding Voltage Tester       Opt.3       GSB-02(6CH H.V./Multiplex Scanner Box         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance/Ground Bond Tester       Opt.3       GSB-02(6CH H.V./ACH G.B.)Multiplex Scanner Box         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance/Ground Bond Tester       GHT-113       High Voltage Test Probe         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance/Ground Bond Tester       GHT-113       High Voltage Test Probe         CEESSORIES       GTL-232       RS-3232 Cable, 9-pin Female to 9-pin, null Modem for Computer       GTL-237       RS-3232 Cable, 9-pin Female to 9-pin, null Modem for Computer         GTL-247       USB Cable, A-A type, approx. 1.8m       GTL-247 <td>OWER SOURCE</td> <td></td> <td colspan="2" rowspan="2">330(W) x 148(H) x 452(D) mm</td> <td>AC100V/120V/220V/230V</td> <td>10% , 50/60Hz</td>	OWER SOURCE		330(W) x 148(H) x 452(D) mm		AC100V/120V/220V/230V	10% , 50/60Hz	
PT-9904       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester       OPTION         PT-9903       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.1       GPIB card         PT-9903A       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester       Opt.3       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9903A       AC 500VA AC/DC Withstanding Voltage Tester       Opt.3       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9901A       AC 500VA AC/DC Withstanding Voltage Tester       Opt.3       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9902A       AC 200VA AC/DC Withstanding Voltage Tester       Opt.3       GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box         PT-9903A       AC 200VA AC/DC Withstanding Voltage Tester       GHT-113       High Voltage Test Pistol       GTL-251       GPIB-USB-HS (High Spe         PT-9802       AC 200VA AC/DC Withstanding Voltage Tester       GHT-113       High Voltage Test Probe       GTL-251       GPIB-USB-HS (High Spe         Vick Start Guide x 1, Power cord x 1, CDx1(complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/       TL-248       GPIB Cable, A-A type, approx. 1.8m       GTL-247       USB Cable, A-A type, approx. 2m       * CRA-417 can not be used with GPT-9900         vick Start Guide x 1, Power Cord x 1, CDx1 (complete user manual), Interlock Key x	IMENSIONS & WEIGHT				330(W)x148(H)x587(D)mm(GPT-9903/9904); 330(W)x148(H)		
OPTION         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         Opt.3       AC 200VA AC/DC Withstanding Voltage Tester         PT-9802       AC 200VA AC/DC Withstanding Voltage Tester         OCESSORIES       GHT-113 High Voltage Test Probe         GTL-232       RS-3232 Cable, 9-p					.,.,,		
<ul> <li>Opt.1 GPIB card</li> <li>Opt.1 GPIB card</li> <li>Opt.2 GSB-01(8CH H.V.)Multiplex Scanner Box</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.1 GPIB card</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li> <li>Opt.3 GSB-02(6CH H.V./2CH G.B.)Multiplex Scanner Box</li></ul>	he sweep function and timer off ca	an only be performed when the tester is in the s	pecial MANU mode.	Specifications	subject to change without	it notice. PT-9000GD	
PT-9904       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9903       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9903A       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9903A       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9901A       AC 500VA AC/DC Withstanding Voltage Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage Tester         CESSORIES       GHT-113         wick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/         02/9801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804       SA. Subsidiary         val Headquarters       U.S.A. Subsidiary	RDERING INFORMA			OPTION			
PT-9903       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9903A       AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9903A       AC 500VA AC/DC Withstanding Voltage Tester         PT-9901A       AC 500VA AC/DC Withstanding Voltage Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance/Ground Bond Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Insulation Resistance/Ground Bond Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester         PT-9801       AC 200VA AC/DC Withstanding Voltage Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester         CCESSORIES       GHT-113         uick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, mote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/         02/3801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804       * GRA-417 can not be used with GPT-9902         val Headquarters       U.S.A. Subsidiary			Ground Bond Tester				
PT-9903A AC 500VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9902A AC 500VA AC/DC Withstanding Voltage Tester         PT-9902A AC 500VA AC/DC Withstanding Voltage Tester         PT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803 AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9801 AC 200VA AC/DC Withstanding Voltage Tester         CCESSORIES         Uick Start Guide x 1, Power cord x 1, CDx1(complete user manual), Interlock Key x 1, mote terminal male plug x 1, Test lead GHT-1114 x 1 for GPT-9903/9903A/9902A/9901A/9803/         V02/B801, Test lead GHT-1114 x 1, GTL-115 x 1 for GPT-9904/9804         Val Headquarters         U.S.A. Subsidiary	PT-9903 AC 500VA AC/DC	Withstanding Voltage/Insulation Resistar	nce Tester			_	
PT-9901A       AC 500VA AC Withstanding Voltage Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9805       AC 200VA AC/DC Withstanding Voltage Insulation Resistance Tester         PT-9806       AC 200VA AC/DC Withstanding Voltage Tester         CESSORIES       GHT-113         wick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/       GTL-247         US-A. Subsidiary       * GRA-417 can not be used with GPT-9900         Val Headquarters       U.S.A. Subsidiary	PT-9903A AC 500VA AC/DC	Withstanding Voltage/Insulation Resistar	ice Tester				
PT-9804       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance/Ground Bond Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage Tester         PT-9805       AC 200VA AC/DC Withstanding Voltage Tester         PT-9806       AC 200VA AC/DC Withstanding Voltage Tester         PT-9807       AC 200VA AC/Withstanding Voltage Tester         CCESSORIES       GHT-113 H//GB Adapter         wick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, mull Modern for Computer       GHT-232 RS-232C Cable, 9-pin Female to 9-pin, null Modern for Computer         Wick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, mull Modern for Computer       GHT-247 USB Cable, A-A type, approx. 1.8m         Wick Start Guide x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/       * CRA-417 can not be used with GPT-990         Wick Start Guide x 1, CDx1 (Complete USER MGR)       U.S.A. Subsidiary         Wick Start Guide x 1, Power Cord x 1, CDX 1 (Complete USE MGR)       * CRA-417 can not be used with GPT-990         Wick Start Guide x 1, Power Cord X 1, CDX 1 (Complete USE MGR)       * CRA-417 can not be used with GPT-990         Wick Start Guide x 1, Power Cord X 1, CDX 1 (Complete USE MGR)       * CRA-417 can not be used with GPT-990         Wick Start Guide X 1, Power Cord X 1, CDX 1 (Complete USE MGR)       * CRA-417 can not be used with GP	F1-33UZA AC 500VA AC/DC W PT-9901A AC 500VA AC/V/+-	ninsianding voltage Tester		OPTIONAL ASSESSOR	IES		
PT-9803       AC 200VA AC/DC Withstanding Voltage/Insulation Resistance Tester         PT-9802       AC 200VA AC/DC Withstanding Voltage Tester         PT-9803       AC 200VA AC/DC Withstanding Voltage Tester         PT-9804       AC 200VA AC/DC Withstanding Voltage Tester         CESSORIES       GHT-117         uick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/         02/9801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804         VISAL Subsidiary         VISAL SUBJECT         WILL STERE         USAL SUBJECT			Ground Bond Tester	GHT-113 High Voltage Tes	t Pistol GTL-251 GF	PIB-USB-HS (High Speed	
PT-9802       AC 200VA AC/DC Withstanding Voltage Tester         PT-9801       AC 200VA AC/DC Withstanding Voltage Tester         CCESSORIES       GHT-118 HV/GB Adapter         wick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/       GHT-122 RS-232C Cable, 9-pin Female to 9-pin, null Modem for Computer         GTL-247       USB Cable, A-A type, approx. 1.8m       GTL-247 USB Cable, A-A type, approx. 1.8m         GTL-248       GPIB Cable, approx. 2m       * GRA-417 can not be used with GPT-9900         val Headquarters       U.S.A. Subsidiary       * GRA-417 can not be used with GPT-9900	PT-9803 AC 200VA AC/DC	Withstanding Voltage/Insulation Resistar		GHT-117 HV Adapter		CK Adapter Panel (19",	
CCESSORIES         uick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/ 302/9801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804         GTL-247       USE Cable, A-A type, approx. 1.8m         GTL-248       GPIB Cable, approx. 2m         * GRA-417 can not be used with GPT-9903         vall Headquarters       U.S.A. Subsidiary	PT-9802 AC 200VA AC/DC	Withstanding Voltage Tester					
uick Start Guide x 1, Power cord x 1, CDx1 (complete user manual), Interlock Key x 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/ 302/9801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804 Dal Headquarters U.S.A. Subsidiary U.S.A. Subsidiary		standing Voltage lester		GHT-205 High Voltage Tes	t Probe		
UICK Start Guide X 1, Power cord X 1, CDX (complete user manual), interfock Key X 1, emote terminal male plug x 1, Test lead GHT-114 x 1 for GPT-9903/9903A/9902A/9901A/9803/ 002/9801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804       GTL-247 USB Cable, A-A type, approx. 1.8m GTL-248 GPIB Cable, approx. 2m * GRA-417 can not be used with GPT-9902         val Headquarters       U.S.A. Subsidiary         val Headquarters       U.S.A. Subsidiary	CCESSORIES			null Modem for (	-pin Female to 9-pin, Computer		
CTL-248 GPIB Cable, approx. 2m * GRA-417 can not be used with GPT-9902 (022/9801, Test lead GHT-114 x 1, GTL-115 x 1 for GPT-9904/9804 * GRA-417 can not be used with GPT-9902 val Headquarters U.S.A. Subsidiary				GTL-247 USB Cable, A-A t	ype, approx. 1.8m		
oal Headquarters U.S.A. Subsidiary							
	emote terminal male plug x 1, Te		902A/9901A/9803/	GTL-248 GPIB Cable, appr	rox. 2m * GRA-417 can m	ot be used with C.PT_9902 /	
OD WILL INSTRUMENT CO., LID.         INSTER AMERICA CORP.         GUID           86-2-2268-0389         F +886-2-2268-0639         T +1-909-399-3535         F +1-909-399-0819	emote terminal male plug x 1, Te 302/9801, Test lead GHT-114 x 1	, GTL-115 x 1 for GPT-9904/9804		GTL-248 GPIB Cable, appr	rox. 2m * GRA-417 can n	ot be used with GPT-9903/	
xb-2-2268-0389         T +1-909-399-3535         F +1-909-399-0819         L <thl< th=""> <thl< th=""> <thl< td="" th<=""><td>emote terminal male plug x 1, Te 02/9801, Test lead GHT-114 x 1 pal Headquarters</td><td>, GTL-115 x 1 for GPT-9904/9804 U.S.A. Sub</td><td>bsidiary</td><td>GTL-248 GPIB Cable, appr</td><td>* GRA-417 can n</td><td>ot be used with GPT-9903/</td></thl<></thl<></thl<>	emote terminal male plug x 1, Te 02/9801, Test lead GHT-114 x 1 pal Headquarters	, GTL-115 x 1 for GPT-9904/9804 U.S.A. Sub	bsidiary	GTL-248 GPIB Cable, appr	* GRA-417 can n	ot be used with GPT-9903/	
	mote terminal male plug x 1, Te 02/9801, Test lead GHT-114 x 1 al Headquarters OD WILL INSTRUMEN	, GTL-115 x 1 for GPT-9904/9804 U.S.A. Sub T CO., LTD. INSTEK	bsidiary AMERICA CORP.		* GRA-417 can n		

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