

Advanced Test Equipment Rentals > www.atecorp.com 800-404-ATEC (2832)

USES:

- Production and Compliance Testing of Appliances, Instruments and Information Technology Equipment in Accordance with UL, CSA, IEC, TUV and Other Standards such as EN60335, UL60950, EN61010 and CSA C22.2 No. 1010.1
- Transformer Electrical Safety Testing
- Electric Motor Safety Testing
- Power Supply Safety Testing
- Verification of the Ground Connection on Products with a Three Prong Power Cord

FEATURES:

- Twin Port Simultaneous Hipot & GB
- Built-in 20A Hipot/Line Leakage Scanner
- Output Voltage to 5kV AC and 6kV DC
- Ground Bond Testing to 30A AC (to 40A with Optional Transformer)
- Insulation Resistance Measurements from 100kΩ to 50GΩ
- Earth, Enclosure & Patient Line Leakage Current Measurements to 9.999mA
- Open/Short Circuit Detection Mode
- Pause Mode with Message Capability
- Continuous Leakage Current Monitoring
- Programmable Trip Current to 40mA AC and 12mA DC
- Programmable Ramp, Dwell & Test Times
- Storage of 100 Test Setups, 50 Steps Each
- Front Panel Lockout via Password
- Standard RS-232 & Remote I/O Interfaces
- Optional IEEE-488, Printer Interfaces
- Optional CaptivATE Automation Software for G6100 Plus

Guardian 6100 Plus Safety Analyzer

for Electronics Production & Compliance Testing

Introduction

The Guardian 6100 Plus is the industry's first production safety analyzer with simultaneous Hipot and Ground Bond capability providing a dramatic savings in test time. Six instruments in one, the G6100 Plus provides AC Hipot, DC Hipot, Insulation Resistance, Leakage Current/Functional Run, Ground Bond and Open/Short measurements from a single test connection. Versatile and packed with features, the G6100 Plus is a cost effective solution for the full spectrum of electrical safety compliance testing.

Description

Twin Port Technology: This patented feature allows for simulataneous Ground Bond and Hipot Testing. Decrease test time and increase device through-put.

Leakage Current: With 20A input current capability, Leakage Current can be measured from 0.1µA to 9.999mA. Perform Functional Run Tests while monitoring the Voltage, Current or Power plus perform Earth, Enclosure and Patient leakage testing in 8 possible modes including Normal, Reverse Line, Single Fault Normal and Single Fault Reverse.

Ground Bond: With test current from 1A to 30A in 0.1A steps and programmable current limits, test time, frequency and open circuit no load voltage, the G6100 Plus provides full GB testing capability. A 40Amp GB option is also available.

AC Hipot: AC dielectric testing over the voltage range from 50V to 5000VAC RMS. The maximum leakage current of 40mA RMS is ideal for testing devices with high leakage currents such as power supplies which have large filter or "Y" capacitors for noise reduction.

DC Hipot: DC dielectric testing from 50V to 6000VDC with a resolution of 1V. Leakage current can be continuously monitored from 0.1µA to 12mA DC.

Insulation Resistance: The G6100 Plus is capable of measuring IR from 100k to $50G\Omega$ with test voltage from 50V to 1000VDC in 1V steps.

Open/Short Circuit Detection Mode: Avoid false pass results by checking for Open and Short connections and ensure that the DUT is properly connected not shorted.

Optional Scanners: Increase the number of test channels for multi-point or multi-device testing by adding an external scanner to the G6100 Plus. Add up to 8HV channels or a combination of HV and GB channels with just one external scanner.

Standard Interfaces: The Remote I/O and RS-232 interfaces provide remote control and serial data collection capability for automated applications.



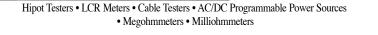
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www.quadtech.com

800-253-1230



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Guardian 6100 Plus

AC Output Voltage:	Range: 50V to 5000V AC, 1V resolution	High/Low Limits:	Programmable for Voltage, Current, Power				
	Regulation: <(1% of setting +5V) at Rated Load	Current Display:	<u>Range</u> 0.0001-0.59mA	<u>Res.</u>	Accuracy		
	Freq: 50-600 Hz, programmable in 1Hz steps 50~60Hz : 1% + 5 cnts, > 60Hz: 3%+10 cnts		0.6 - 9.999mA		. ,		
	Waveform: Sinusoidal	Current Trip Limits:			solution (Range Dep.)		
Voltage Display:	Accuracy: $\pm(1\%)$ of reading + 5V)	ourient mp Linits.	0.1µA to 6.000m	· •	(0 1)		
voltage Display.	Resolution: 1Volt	Measuring Circuit:	5 Human Body Models IAW UL544 NP,				
AC Current Display:	Total current, Range: 0.001 to 40mAAC		UL544P, UL1563, UL2601-1,IEC60601-1, IEC 950, UL1950, UL3101 Standards				
	Resolution: 1 or 10μ A steps						
	Accuracy: ±(1% of reading + 5cnt)	Measurement Modes:	Normal, Reverse, Single Fault with Ground ON/OFF, Earth Line Leakage, Patient Line				
High/Low Limit Test:	1µA to 40mA AC						
	Low limit can be turned OFF			Leakage and Patient Auxiliary Leakage.			
Arc Detection:	Programmable 1-20mA,	Max. DUT Current:	20A				
	Pulse Width 40 μ , 20 μ , 10 μ or 4 μ sec	Common Features:					
DC Output Voltage:	Range: 50V to 6000V DC, 1V resolution		Check for Open	& Short an	ainst a standard		
	Regulation: <(1% of setting +5V) at Rated Load		: Check for Open & Short against a standard capacitance value (Cs); <100V, 600Hz				
Voltage Display:	Accuracy: ±(1% of reading + 5V)	Offset Function:	0 to $100m\Omega$ offset, user selectable				
	Resolution: 1Volt	Test Time:	Ramp: 0.3 to 99				
DC Current Display:	Range: 0.1µ to 12mA DC		Dwell: 0 to 999s (±20ms), DC only				
	Resolution: 0.1, 1 or 10µA steps		Start Wait: 0.1 to	o 99.9s (±20)ms), GB only		
	Accuracy: ±(1% or reading + 5cnt)		Test: 0.3 to 999s	s (±20ms) &	Continuous (ALL)		
High/Low Limit Test:	0.0001mA to 12mA DC	Remote Control:	Inputs: Start,Stop				
	Low limit can be turned OFF		Characteristics: Optically Isolated, Low,				
Arc Detection:	Programmable 1-10mA		Pulse Width >1r				
	Pulse Width 40 μ , 20 μ , 10 μ or 4 μ sec		Outputs: Pass/F				
Insulation Resistance			Characteristics: Electrical Charact	-	-		
	Accuracy: ±5% to ±15% depending upon		Logic: Closed if		ToomAmax.		
Valtana Danas	voltage and resistance		-		nd 9 pin D Series		
Voltage Range:	50V to 1000V DC	Test Setups:	100 Test Setups with 50 Steps each,				
Voltage Accuracy:	\pm (1% of setting + 5V)			13 character Alpha-Numeric Label			
High/Low Limit Test:	100kΩ - 50GΩ	Connectors:	Front and Rear 4- terminal connection				
	Low limit can be turned OFF	Display:	320 x 240 enhanced LCD with status indicators				
Ground Bond:		Front Panel Lockout:	Key Lock w/ Pa	ssword: Fail	Lock w/ Password		
Output Current:	Range: 1.0 to 30.0A AC, setting 0.1A/step; *40A	Safety Features:	Fast Cutoff (<0.4ms) & Fast Discharge (0.2s)				
_	Accuracy: $\pm(1\% \text{ of setting } \pm 0.3\text{A})$		Adjustable Discl	,	• • •		
Frequency:	50 or 60Hz Selectable	Miscellaneous:	Fail Retest; Cor	-			
No Load Voltage:	6 to 15 V Programmable				use between steps		
Resistance:	Range: 0.1mΩ-510.0mV, 4 digits; Resol: 1mV	Indication:	Pass/Fail lights, audible sound; Remote, Lock,				
	Accuracy: ±(1% of reading + 3 counts)		Offset & Error st	tatus indicat	ors		
High Limit:	$0.1m\Omega$ to $510m\Omega$	Interfaces:	Std RS-232, Re	mote I/O O	ot IEEE-488, Printer		
Start Wait:	0.1 - 99.9sec, OFF	Dimensions:	(w x h x d):17x5	.25x18.5in ((430x133x470mm)		
Leakage Current:		Weight:	53 lbs (24kg) - 1	vet, 60 lbs ()	27kg) Shipping		
Input Voltage:	Range: 0V to 300V	Environmental:		ing: 0 to + 40° C; Humidity: <75%			
Line Voltage Meter:	0 - 300V AC, ±(1% of reading + 6cnts)		Storage: - 20 to + 70° C				
Line Current Meter:	0 - 20A, ±(1.5% of reading + 0.1A)	Power:	• 90 - 130V AC	• 50 or 6	60Hz		
Power:	0 - 4400VA		• 200 - 250V AC	• 800W	max		

Ordering Information

*GB to 40A with optional transformer

Guardian 6100 Plus Safety Analyzer		Optional	Accessories	G14	Power Entry Adapter	
Includes:		N/A	Calibration Data	G16	International Power Strip	
150799	Instruction Manual	5000-01	External Scanner, 8 Channel: 8HV	G24	Scanner Cable (5000 scanners)	
S02	HV Lead Set, 1m	5000-02	External Scanner, 8 Channel: 8HV, 4GB	G25	Corded Product Adapter (240V)	
G15	Ground Continuity Lead Set	5000-03	External Scanner, 8 Channel: 8HV	G31	Isolation Transformer, 500VA	
G30	Corded Product Adapter	5000-04	External Scanner, 8 Channel: 8HV, 3GB	G32	Isolation Transformer, 1000VA	
G33	Power Entry Adapter	S04	HV Lead Set 2m	G38	Printer Interface (replaces IEEE)	
4200-0300	AC Power Cable	S05	Foot Switch	G39	IEEE-488 Interface	
520157	8A 250V Power Line Fuse	S08	Gun Probe	G43	Rack Mount Kit	
520053	4A 250V Power Line Fuse	S09	HV Lead, 1m, Unterminated	G44	Barcode Scanner	
520124	20A 250V Power Line Fuse: Scanner	S10	HV Lead, 1m, Unterminated	G45	40A Ground Bond Transformer	
N/A	Calibration Cert. Traceable to NIST	G13	Corded Product Adapter (115V)	630157	RS232, 9-pin (M-F), 10' length	

For more detailed information on specifications, pricing and special purchase, rent and lease options, contact us at:

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