

EST Selection Guide

AC/DC/IR HIPOT TESTERS

TESTER	AC Hipot	DC Hipot	IR Insulation Resistance	GC: Continuity GB: Bond Other Modes	Display	Test Times	Remote Interface	
SENTRY PLUS	10 Plus CE, UL	0.05-5.0kVAC 1µA-20mAAC HI/LO limits Arc detect		GC: Programmable 0.1Ω - 5Ω ± 2Ω Other: OSC, PA	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Ramp: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O Interlock	
	20 Plus CE, UL	0.05-5.0kVAC 1µA-20mAAC HI/LO limits Arc detect	0.05-6.0kVDC 0.1µA-5.0mADC HI/LO limits Arc detect	GC: Programmable 0.1Ω - 5Ω ± 2Ω Other: OSC, PA	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Ramp: 0.1 -999s Dwell: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O Interlock	
	30 Plus CE, UL	0.05-5.0kVAC 1µA-20mAAC HI/LO limits Arc detect	0.05-6.0kVDC 0.1µA-5.0mADC HI/LO limits Arc detect	GC: Programmable 0.1Ω - 5Ω ± 2Ω Other: OSC, PA	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Ramp: 0.1 -999s Dwell: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O Interlock	
	50 Plus CE			0.5-1kVDC 0.1M-50GΩ	GB: 3-30A AC 0.1mΩ- 510mΩ 1.0-8.0V AC	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Test: 0.5- 999s	Remote I/O Interlock
G1000	1010 CE, UL	0.05-5.0kVAC 0.001-30mAAC I_{Real}, I_{Total} HI/LO limits Arc detect		GC: 100mA DC 1Ω Max Other: OSC, PA	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Ramp: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O Interlock RS232 OPT: IEEE-488 or Printer	
	1030 CE, UL & 1030S	0.05-5.0kVAC 0.001-30mAAC I_{Real}, I_{Total} HI/LO limits Arc detect	0.05-6.0kVDC .0001-10mA DC HI/LO limits Arc detect	GC: 100mA DC 1Ω Max Other: OSC, PA	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Ramp: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O Interlock RS232 OPT: IEEE-488 or Printer	
	1050 CE			GB: 3-45A AC 0.1mΩ- 510mΩ 1.0-8.0V AC	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Test: 0.5- 999s	Remote I/O Interlock OPT: RS232, IEEE-488 or Printer	
G2500	2510 CUL Discontinued	0.1 -5.0kVAC 0.001-15mAAC $I_{Real}, I_{Imag}, I_{Total}$ HI/LO limits Arc detect		GC: 100mA DC .01Ω-10Ω	175x25mm LCD Prog. Parameters; Measurement Value;	Ramp: 0.1 -999s Dwell: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O Interlock RS232 OPT: IEEE - 488	
	2520 CUL Discontinued	0.1 -5.0kVAC 0.001-15mAAC $I_{Real}, I_{Imag}, I_{Total}$ HI/LO limits Arc detect	0.1-6.0kVDC 0.0001-7.5mADC HI/LO limits Arc detect	GC: 100mA DC .01Ω-10Ω	175x25mm LCD Prog. Parameters; Measurement Value;	Ramp: 0.1 -999s Dwell: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O RS232 OPT: IEEE-488	
	2530 CUL Discontinued	0.1 -5.0kVAC 0.001-15mAAC $I_{Real}, I_{Imag}, I_{Total}$ HI/LO limits Arc detect	0.1-6.0kVDC 0.0001-7.5mADC HI/LO limits Arc detect	GC: 100mA DC .01Ω-10Ω	175x25mm LCD Prog. Parameters; Measurement Value;	Ramp: 0.1 -999s Dwell: 0.1 -999s Test: 0.1-999s Fall: 0.1-999s	Remote I/O RS232 OPT: IEEE-488	
HYBRID	Hybrid 2000 CE	0.05 - 5kV 0.001 - 30mA I_{Real}, I_{Total} HI/LO limits Arc detect	0.05 - 6kV 0.0001 - 10mA HI/LO limits Arc detect	0.05 - 5kV 1MΩ - 50GΩ	DCR: 50mΩ - 100mΩ Other: OSC, PA	130x40mm LCD Prog. Parameters; Measurement Value; Pass/Fail Result	Ramp: 0.1 -999s Dwell: 0.1 -999s Test: 0.3-999s Fall: 0.1-999s	Interlock RS232 OPT: 2 nd RS232
	GUARDIAN SPECIALTY HIPOT	500VA	0.05-5.0kVAC 0.001-100mAAC 0.0001-20mADC HI/LO limits Arc detect	0.05-6.0kVDC 0.0001-20mADC HI/LO limits Arc detect	0.05-1kVDC 100k-50GΩ HI/LO limits	Other: PA	150x25mm LCD Prog. Parameters; Measurement Value	Ramp: 0.1 -99.9s Test: 0.1-999s
10kVAC		0.1-10.0kVAC 0.001-20mAAC HI/LO limits Arc detect			Other: PA	150x25mm LCD Prog. Parameters; Measurement Value	Ramp: 0.1 -99.9s Test: 0.1-999s	Remote I/O, RS232 OPT: IEEE488, Printer
12kVDC			0.1-12.0kVDC 0.0001-10mADC HI/LO limits Arc detect	0.1-1kVDC 100k-50GΩ HI/LO limits	Other: PA	150x25mm LCD Prog. Parameters; Measurement Value	Ramp: 0.1 -99.9s Test: 0.1-999s	Remote I/O, RS232 OPT: IEEE488, Printer
20kVDC			0.1-20.0kVDC 0.0001-5mADC HI/LO limits Arc detect	0.1-1kVDC 100k-50GΩ HI/LO limits	Other: PA	150x25mm LCD Prog. Parameters; Measurement Value	Ramp: 0.1 -99.9s Test: 0.1-999s	Remote I/O, RS232 OPT: IEEE488, Printer

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Hybrid 2000



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EST Selection Guide

ELECTRICAL SAFETY ANALYZERS

	TESTER	AC Hipot	DC Hipot	IR Insulation Resistance	GC: Continuity GB: Bond Other	Display	Test Times	Remote Interface
GUARDIAN 6XXX PLUS SERIES	6000 Plus CE, UL	0.05-5.0kVAC 0.001-40mAAC HI/LO limits Arc Detect; Filter	0.05-6.0kVDC 0.0001-12mADC HI/LO limits Arc Detect; Filter	0.05-1kVDC 100k-50GΩ HI/LO limits	GB: 1-30A; 40A opt 0.1mΩ- 510mΩ 6.0-15V AC Twin Port™; GB & Hipot Other: OSC, PA	320x240 LCD Full menu: Test setup Parameters Results Memory	Ramp: 0.3-999s Dwell: 0-999s Test: 0.1 -999s	Remote I/O RS-232 OPT: IEEE-488, Printer & Scanner
	6100 Plus CE, UL	0.05-5.0kVAC 0.001-40mAAC HI/LO limits Arc Detect; Filter 20A LCScanner: Earth, Enclosure, Patient, Pat. Aux Functional Run: (V), (A) or (VA)	0.05-6.0kVDC 0.0001-12mADC HI/LO limits Arc Detect; Filter	0.05-1kVDC 100k-50GΩ HI/LO limits	GB: 1-30A; 40A opt 0.1mΩ- 510mΩ 6.0-15V AC Twin Port™; GB & Hipot Other: OSC, PA	320x240 LCD Full menu: Test setup Parameters Results Memory	Ramp: 0.3-999s Dwell: 0-999s Test: 0.1 -999s	Remote I/O RS-232 OPT: IEEE-488, Printer & Scanner
GUARDIAN 6000 SERIES	6000 CE	0.05-5.0kVAC 0.001-40mAAC HI/LO limits Arc detect	0.05-6.0kVDC 0.0001-20mADC HI/LO limits Arc detect	0.05-1kVDC 100k-50GΩ HI/LO limits	GB: 1-30A 0.1mΩ- 510mΩ 6.0-15V AC Other: OSC, PA	150x25 LCD Program; Meas. Result	Ramp: 0.1-99.9s Test: 0.1 -999s IR: 0.3-99.9s GC: 0.5-999s	Remote I/O IEEE-488 OPT: RS232, Printer & Scanner
	6100 CE	0.05-5.0kVAC 0.001-40mAAC HI/LO limits Arc detect Earth Line LC	0.05-6.0kVDC 0.0001-20mADC HI/LO limits Arc detect	0.05-1kVDC 100k-50GΩ HI/LO limits	GB: 1-30A 0.1mΩ- 510mΩ 6.0-15V AC Other: OSC, PA	150x25 LCD Program; Meas. Result	Ramp: 0.1-99.9s Test: 0.1 -999s IR: 0.3-99.9s GC: 0.5-999s	Remote I/O IEEE-488 OPT: RS232, Printer & Scanner
	6200 CE Discontinued	0.05-5.0kVAC 0.001-40mAAC HI/LO limits Arc detect Earth Line LC	0.05-6.0kVDC 0.0001-20mADC HI/LO limits Arc detect	0.05-1kVDC 100k-50GΩ HI/LO limits	GB: 1-30A 0.1mΩ- 510mΩ 6.0-15V AC Other: OSC, PA	150x25 LCD Program; Meas. Result	Ramp: 0.1-99.9s Test: 0.1 -999s IR: 0.3-99.9s GC: 0.5-999s	Remote I/O IEEE-488 OPT: RS232, Printer & Scanner

MEDICAL SAFETY ANALYZERS

	TESTER	IEC Tests	Leakage Current	Insulation Resistance	Earth Bond	Display	Test Compliance	Remote Interface
2XX SERIES	277 Portable CE	Load: 0-4.0kVAC Mains ±10% Lead: 40V AC, 1mA Good, Open Live, Open Neutral, Short, Reverse	0-9.99mA AC Earth Enclosure Patient Patient Auxiliary Patient F-Type Equiv. Equipment 11 AP Terminals	100k-100MΩ 350, 500V DC	0.1, 1, 10 or 25A AC 0- 20Ω 6.0V rms nominal	Graphical LCD Full menu: Test setup Parameters Results Memory	IEC 60601 EN 60601 NFPA99 ANSI/AAMI ES1 MDA DB9801 VDE 0751	RS232: 9-pin D Parallel: 25-pin Built-in Printer OPT: Barcode & Brain Cell Scanners
	299 Bench Top CE	Load: 0-4.0kVAC Mains ±10% Lead: 40V AC, 1mA Good, Open Live, Open Neutral, Short, Reverse	0-9.99mA AC Earth Enclosure Patient Patient Auxiliary Patient F-Type Equiv. Equipment 11 AP Terminals	100k-100MΩ 350, 500V DC	0.1, 1, 10 or 25A AC 0- 20Ω 6.0V rms nominal	Graphical LCD Full menu: Test setup Parameters Results Memory	IEC 60601 EN 60601 NFPA99 ANSI/AAMI ES1 MDA DB9801 VDE 0751	RS232: 9-pin D Parallel: 25-pin OPT: External Printer, Barcode & Brain Cell Scanners

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G6000/G6100 Plus



277 & 299



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