



U.S. Patents: 6,011,398, 6,515,484, 6,538,420.

LINECHEK® II

Fully-Automated Line Leakage Tester



Model 620L

Fully-Automated Line Leakage Tester

The LINECHEK® II Model 620L is a fully automated Line Leakage tester that can be configured to perform 8 of the most commonly required Line Leakage tests. It can also be configured for use in stand alone applications or as part of a test system when interconnected to any Associated Research Hipot or Ground Bond tester. The 620L may also be interconnected with the AC1000 Power source to provide clean power to the DUT and allow for full adjustment of DUT input voltage. For automated control of Line Leakage test points, the 620L may be combined with the SC6540 modular scanning matrix. Lastly, when configured with an optional Run Test feature, the 620L can monitor minimum and maximum readings for Voltage, Current, Watts, Power Factor, and Leakage Current. RS-232, GPIB, or Ethernet communication interfaces allow for the automated control of the instrument.

Features and Benefits

- Test operators can configure the 620L to perform all 8 required Line Leakage tests
- Leakage current readings can be monitored using both PEAK and RMS measurements
- Most common measuring devices (MD's) are already incorporated into the instrument's intuitive menu system
- 50 Memories with 30 steps per memory can be stored and recalled in any alphanumeric combination
- Compact 3U Rack Mount Design
- Optional Functional Run Testing for additional measurements
- RS-232, GPIB, or Ethernet communication interfaces available. Use your own software or our stand alone test software
- Interconnection to AC1000 AC Power Source provides clean power to the DUT
- Interconnection to SC6540 Modular Scanner provides automated control of multiple test points
- Graphic LCD and intuitive menu system to simplify the entire testing process
- Patented CAL-ALERT alerts the operator that the 620L is due for re-calibration
- Handles up to 40 Amp maximum continuous DUT Current
- Optional cold resistance measurement capability
- Leakage offset feature for applications using fixtures



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Input Specifications

Voltage	115/230 VAC ± 10%
Frequency	50/60 Hz ± 5%
Fuse	2A Slow-Blo 250V AC

Line Conditions

Power Switch	Reverse polarity switch for normal condition
Neutral Switch	Neutral switch on/off selection for single fault condition
Ground Switch	Ground switch on/off selection for class I single fault condition

Probe Settings

Surface to Surface (PH - PL)
Surface to Line(PH - L)
Ground to Line (G - L)

Leakage Limit Settings

Touch Current High/Low Limit (RMS)	Range1: 0.0uA - 999.9uA / 1000uA - 9999uA / 10.00mA - 20.00mA Resolution: 0.1uA/1uA/0.01mA
Touch Current High/Low Limit (Peak)	Range2: 0.0uA - 999.9uA/ 1000uA - 9999uA / 10.00mA - 30.00mA Resolution: 0.1uA/1uA/0.01mA

DISPLAY

Touch Current Display (RMS)	Range 1: 0.0uA - 999.9uA, frequency DC - 1MHz Resolution: 0.1uA Accuracy: DC : ±(2% of reading + 3 counts) 15Hz < f < 100KHz : ±(2% of reading + 3 counts) 100KHz < f < 1MHz : ±(5% of reading), 10.0uA - 999.9uA Range 2: 1000uA - 8500uA, frequency DC - 1MHz Resolution: 1uA Accuracy: DC : ±(2% of reading + 3 counts) 15Hz < f < 100KHz : ±(2% of reading + 3 counts) 100KHz < f < 1MHz : ±(5% of reading), 10uA - 8500uA Range 3: 8.00mA - 20.00mA, frequency DC - 1MHz Resolution: 0.01mA Accuracy: DC : ±(2% of reading + 3 counts) 15Hz < f < 1MHz : ±(5% of reading), 0.01mA - 20.00mA
Touch Current Display (Peak)	Range 1: 0.0uA - 999.9uA, frequency DC - 1MHz Resolution: 0.1uA Accuracy: DC : ±(2% of reading + 2uA) 15Hz < f < 1MHz : ±(10% of reading + 2uA), 10.0uA - 999.9uA Range 2: 1000uA - 8500uA, frequency DC - 1MHz Resolution: 1uA Accuracy: DC : ±(2% of reading + 2 counts) 15Hz < f < 1MHz : ±(10% of reading + 2 counts), 10uA - 8500uA Range 3: 8.00mA - 30.00mA, frequency DC - 100KHz Resolution: 0.01mA Accuracy: DC : ±(2% of reading + 2 counts) 15Hz < f < 100KHz : ±(10% of reading + 2counts), 0.01mA - 30.00mA

Measuring Device Module

MD1	UL544NP, UL484 , UL923, UL471, UL867, UL697
MD2	UL544P
MD3	IEC 60601-1
MD4	UL1563
MD5	IEC60990 Fig4 U2, IEC60950-1, IEC60335-1, IEC60598-1, IEC60065, IEC61010
MD6	EC60990 Fig5 U3, IEC60598-1
MD7	IEC60950, IEC61010-1 FigA.2 (2K ohm) for Run function
External MD	Basic measuring element 1k ohm
MD Voltage Limit	70Vdc

DUT Power

AC Voltage:	0.0 - 277.0V
AC Current:	40Arms max continuous
Over Current Protection	50Arms, Response Time < 3 sec / 250A peak Response Time < 10u sec
AC Voltage High/Low Limit	Range: 0.0 - 277.0V Resolution: 0.1V/step
AC Voltage Display	Range: 0.0 - 277.0V Resolution: 0.1V / step Accuracy: ± (1.5% of reading = 2 counts), 30.0 - 277.0
Delay time setting	Range: 0.5 - 999.9 sec Resolution: 0.1 sec
Dwell time setting	Range: 0, 0.5 - 999.9 sec (0=Continuous) Resolution: 0.1 sec Accuracy: ± (0.1% of reading + 0.05 seconds)

GENERAL

PLC Remote Control	Input - Test, Reset, Interlock & Recall File 1 through 10 Output - Pass, Fail, Test-in-Process, Start-Out, Reset-Out
Memory	50 memories, 30 steps per each memory. Max. Result Display 900 data (30 memories x 30 steps)
Display	320 X 240 graphic LCD
Security	Lockout capability to avoid unauthorized access to test set-up programs
Calibration	Software and adjustments are made through front panel. Automatic Calibration alert function to signal operator when calibration is due
Results Display	All test result information will be displayed on the screen
Interface	RS232 Standard, GPIB, Ethernet Optional
Dimension	430 (W) x 133(H) x 300 (D) mm
Weight	12 Kgs



- Customer support & technical services
- 5-Year extended warranty*
- 24-Hour turn-around on calibrations
- Industry seminars, expert training & education programs
- Local sales offices throughout the world

*With annual calibration from Associated Research.