

VITREK



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95X Series

Industrial Strength Hipot Testers

95X Series

More speed, more power, better resolution, more functionality. What more could you want in an electrical safety tester?

Vitrek 95X Series

For more than 25 years Vitrek has been driven by an obsession to build a better hipot tester. Increased user safety, faster test times, higher output voltages and more functionality have been our driving force. The 95X series is the result of this pursuit—offering power, speed, accuracy and resolution that leave the others far behind.

The TL-UP2 Test Adaptor allows for easy Hipot and Ground Bond connection to virtually any device with a power cord. The TL-UP2 routes high voltage to both the line and neutral pins of the power socket and connects the earth pin of the socket to the return of the tester. A separate test lead can be connected to the DUT chassis for continuity or Ground Bond testing to the earth pin of the DUT power cord. Available in Hipot/Continuity or Hipot/ Ground Bond versions.

For Demanding Hipot Tests – Demand the Vitrek 95X

Speed and power go hand in hand, the 6.5KVDC models offer 50mA of source current for DC Hipot—providing the power you need to rapidly charge and discharge challenging DUTs. Models are also available with DC hipot up to 11KV and 15KV. Most of the 95X series also offer 50mA of sourcing for AC hipot, but for heavier AC loads the 95X can be configured to source up to 100mA or even as much as 200mA. For higher AC hipot voltages the 95X can generate up to 10KV internally and all models are available with an external 30KVAC hipot option. When it comes to making critical leakage current measurements, the 95X delivers rock-solid resolution down to 100 pico-amps. This high resolution provides built-in insulation resistance measurement (IR) up to a Tera-ohm, add a 4-wire milli-ohmmeter with autoranging up to 100K ohm and



an available 40 amp Ground Bond function - and you are beginning to understand the versatility of the Vitrek 95X Series.

Need To Hipot Multiple Test Points?

The 95X has the ability to directly control up to four 64 channel HV scanners, right out of the box. That is up to 256 test points and using a PC with Vitrek's QuickTest Pro software you can expand the count up to 640 test points. The HV Switching System of choice is the Vitrek 964i which can hold eight 8 channel switching cards—available in 7, 10 and 15 KV ratings. The 964i also has switching cards to handle routing up to 40 amp ground bond currents.

95X Series Output Comparison Chart

CAPABILITIES	951i	952i	953i	954i	955i	957i	959i
AC Hipot	20V–6KV	20V–6KV	20V–6KV	20V–6KV	50V–10KV	20V–10KV	-
Max Std Current	50mA	50mA	50mA	50mA	30mA	50mA	-
500VA Option	100mA	-	100mA	-	-	100mA	-
2KV Max Option	200mA	-	200mA	-	-	200mA	-
30KVAC External Option	10mA	10mA	10mA	10mA	10mA	10mA	-
DC Hipot/IR	30V-6.5KV	30V-6.5KV	50V-11KV	50V-11KV	50V-11KV	75-15KV	-
Max Current	50mA	50mA	30mA	30mA	30mA	10mA	-
MAX IR	2T	2T	4T	4T	4T	6T	-
40A Ground Bond	-	Yes	-	Yes	-	-	Yes
4 Wire Ohmmeter 100μΩ to 149KΩ	Yes	Yes	Yes	Yes	Yes	Yes	Yes

FEATURES AND BENEFITS

Highest Level of Operator Safety

features include: GFI High speed shut down for earth ground leakage faults, SFI™ Safety Fault Interlock – High speed shut down for interruption of safety interlock, TLSS™ Test Lead Safety Sense – Clamps DUT chassis near ground by continuously verifying proper connection of test leads prior to and during HV testing

High Power Output

means better drive capability and increased test throughput. With up to 50mA of sourcing current for DC hipot the 95X Series gets heavy duty jobs done fast—available 100mA & 200mA AC drive tackles even the toughest sourcing requirements

Wide Range of built-in Voltage Capabilities

Choose from 6.5KVDC, 11KVDC or 15KVDC and 6KVAC, 10KVAC or up to 30KV RMS AC with external option

The Fastest Hipot Testers available

High output power combined with Dual Coldfire® micro-processors and Dual DSPs to provide Ramp rates up to 50KV/second, dwell times as low as 20mS and overall test times as fast as 3mS in optional Flash mode

Expansive Test Sequence Memory

holds up to 100 tests with up to 100 steps per test. Tests can be selected via front panel, Ethernet, RS232, Digital I/O or with optional GPIB

Ground Bond Test Capability

available in three models with output currents from 100mA to 40Amps RMS and test times from 20mS to 1000 seconds or longer

4-Wire Milli-Ohmmeter Function

provides fast, accurate 5 digit resistance measurements with resolution down to 100 $\mu\Omega$ and range up to 100K ohms

Built-in Phase Angle Measurement

allows the measurement and display of both resistive (in-phase) leakage current and reactive (out-of-phase) leakage current caused by capacitive coupling

Multi-Dwell Functionality

permits dwells at different voltage levels without having to return to zero between test steps dramatically simplifying advanced analysis of dielectric properties

Ramp High/Dwell Low Current Limit

permits the user to set separate limits for the ramp and dwell providing faster ramp times and lower leakage test limits

Test Specific Fixture & Cable Compensation

Automatically calibrate out offset errors caused by lead resistance, fixture capacitance and leakage

Multi-Mode IR

Insulation Resistance values up to one Tera-ohm can be obtained with precision in your choice of 3 IR test modes—end on time, end on pass or end on fail

Continuously Variable IR Test Voltage

Unlike most IR testers which limit you to three or four discrete test voltages, the 950i Series allows you to select the test voltage you need. Starting as low as 20V all the way to 6.5KV, 11KV or 15KVDC

Capacitance Test Modes

For AC & DC hipot and IR provide tightly controlled charge and discharge profiles for superior results on critical solar panel tests and other highly capacitive loads

Ethernet, RS232, Digital I/O, USB Printer & Scanner

Control— All Standard Interfaces—Provides the highest level of test automation. GPIB optional

High Voltage Scanner Control

up to 256 point switching capability with available 964i HV Scanners. Route voltages up to 15KV and currents up to 40A for multi-point hipot and ground bond tests

Dual Dimensional/Test Specific/Broadband Arc Detection

Where lesser testers allow you to set a single, global, amplitude only arc limit—the technologically advanced 95X Series utilizes time & amplitude based arc limits and uniquely applies them to each desired test

Pico-Amp Leakage Measurement

insures that even the lowest leakage current levels are accurately detected and tera-ohm range IR readings are stable and precise

Light Weight Switching Power Supply Design

Better reliability, easier on your back. Compare the 8.2 kg 95X to whatever you've been using

400Hz AC Voltage Withstand Testing

provides aviation frequency specific test results for a more effective analysis of dielectric properties on avionic components

Safety Tested

per EN 61010-1. EMC compliant to EN 61326-1



Which product is right for you?
Contact us today.

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