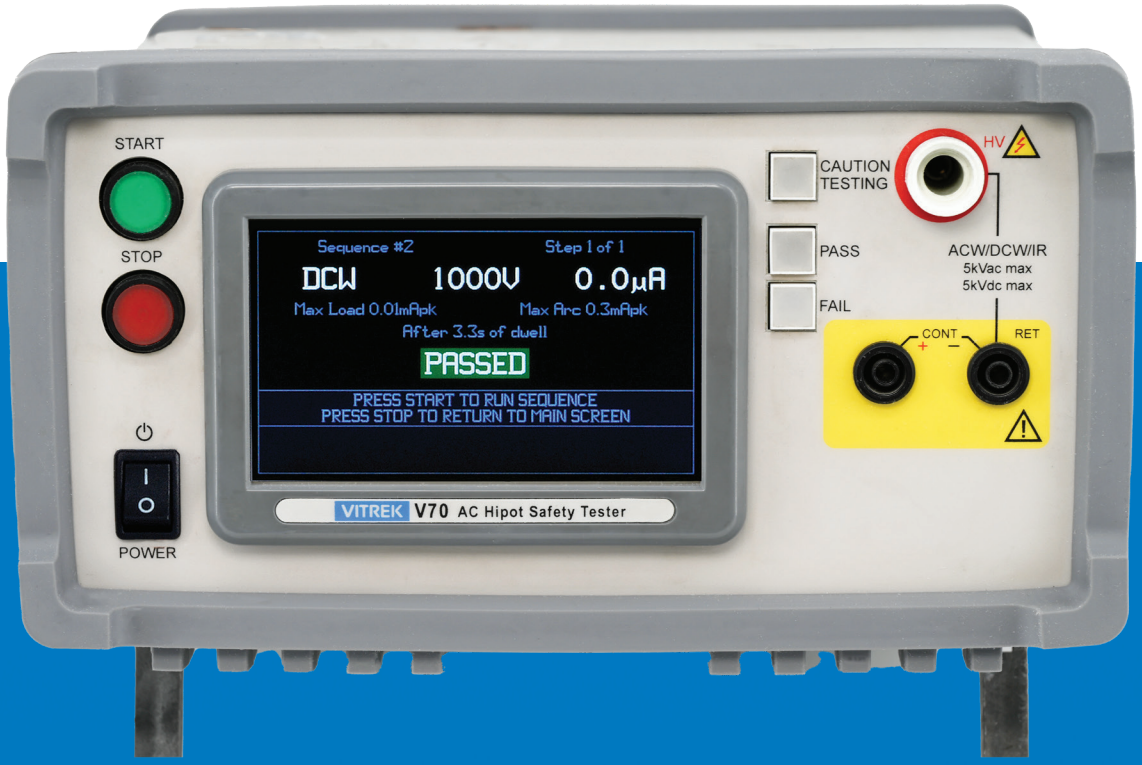
SETUP ELECTRÓNICA

VITREK



VITREK

Vitrek V7X Series

No other Hipot can touch ‘em

Vitrek V7X Series

At Vitrek, improving hipot tester performance is more than a goal—it is our passion. Every V7X Series tester is designed to deliver exceptional speed, accuracy, safety and reliability while remaining easy to use and cost-effective. Drawing on decades of innovation in electrical safety testing, the V7X redefines what engineers and manufacturers should expect from a modern hipot tester.

The Hipot Experience has been Redefined

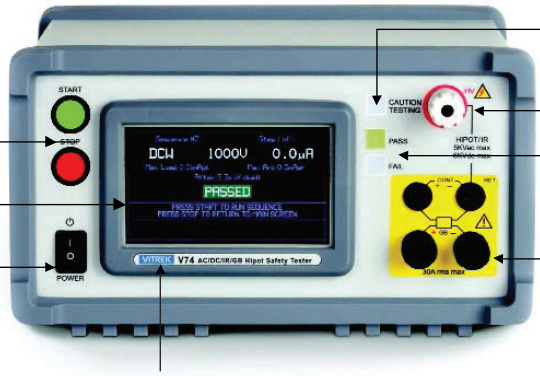
Our goal for the V7X series has been to achieve the unheard of. To provide state-of-the-art performance in a powerful yet compact multi-function hipot tester and do it at an entry level price. From our easy-to-use Touch user interface, to its ultra-reliability, high efficiency, fan free design—the V7X provides unrivaled performance. Have we met our goal? You be the judge—compare the V7X to our made in China competitors and see how well American engineering stands up. We build Vitrek Hipot Testers. What's on your production line?

Test 8 DUTs at a Time with the V76

For multi-channel hipot testing—choose the V76 with 24 channels of built-in high voltage switching. With the versatile V76, you can test hipot or IR for any combination of up to eight test points and you can measure low resistance (from .001 ohm to 60K ohms) on up to eight conductors. All automatically with a single touch and all from a single compact tester. For requirements exceeding eight points, the V7X can control up to four Vitrek 964i 64 channel HV Switching Systems—providing up to 256 channels of Hipot test capability. Simple, fast, automatic multi-point hipot—make the switch to the Vitrek V7X. You will be glad you did.

Features and Benefits

- 4.3" Color Touch Display—Easy To Use Intuitive User Interface
- 6 Functions to Choose From—AC/DC Hipot, IR, Ground Bond, Continuity and Built-in Switching
- Made in the USA—Designed and Built in San Diego CA
- Compact, Lightweight, Rugged, Fan Free, Fast (100mS min test time) and Accurate
- 5KV AC/DC Hipot, 20mA max source current
- Ground Bond 1-30A RMS (42 A peak), 100μΩ Resolution
- 100 nano-Amp Leakage Current Resolution
- Low Cost of Ownership
- USB 2.0, Serial/RS232, Digital I/O Interfaces are Standard
- Continuously Variable Insulation Resistance 20-5000V, 450GΩ Max
- Multi Mode IR with Steady/Rising Pass Mode
- Test Memory Stores up to 999 Steps and 60 Test Sequences
- Internal Self Test Fully Exercises Output and Verifies Current Accuracy
- Pre-Programmed Daily Verification Test With Optional PVD Test Load
- 150μS Safety Shutdown
- Ramped Discharge Capability
- Selectable ARC Detection 1-30mA
- Meets UL, CSA, IEC Safety Tester Requirements
- CE Safety Mark Certified to EN61010
- Two Year Parts and Labor Warranty



4.3" Color Touch Display All of the Info you Need Super Easy to Use

Ultra-High Reliability Start/Stop Switches

Convenient Front Panel Power Switch

Large, Bright LED Caution Testing Indicator

Safety Locked HV Terminal for Hipot & IR

Independent LED Pass/Fail Indicators

Low Profile High Current Binding Posts for Ground Bond

The Brand You Trust on Your Production Line

AC Hipot

Output Voltage 10 to 5000V RMS, 50/60 Hz (2500V max on V76)
Accuracy: 1% of setting +5V, No load to full load
Resolution: 1V at all levels
Max load current: 20mArms Leakage Current
Accuracy: 1% of reading +5uA
Resolution: 1uA

DC Hipot

Output Voltage 20 to 5000V (2750V max on V76)
Accuracy: 1% of setting+ 5V, No load to full load
Resolution: 1V at all levels
Max load current: 10mA Leakage Current
Accuracy: 1% of reading +1uA
Resolution: 0.1uA

IR - Insulation Resistance

Test Voltage 20 to 5000VDC (2750V max on V76)
Accuracy: 2.5% of setting +5V, No load to full load
Resolution: 1V at all levels
Max Charge Current: 5mA automatic
Max Capacitive Load: 2uF Resistance
Max IR: 450Gigohm (90MΩ per volt)
Min IR: 150KΩ
Accuracy: 2% (rdg <5% of max IR), 5% (< 15% of max IR), 10% (< 30% of max IR), 20% (above 30% of max IR)
Max Resolution: 0.1% of value
Min/MaxLimits: Definedforeachstep, maxmay be set to none Test Completion
End on Time: Determination on final reading
End on Pass: Test ends with PASS for any reading within limits
End on Fail: Test ends with FAIL for any reading outside limits End on Steady: Test ends with PASS for a steady/ rising reading within limits

Low Resistance

Resistance Range: 0ohm to 60Kohm
Accuracy: 1.5 %+0.015Ω (<13Ω), 3%+1ohm (<1KΩ), 5 %(< 13KΩ)
Resolution: Down to 0.001Ω Min test time: 60 mS
Test Method: 2 terminal measurement, 10.5mA/ 4.15V max Resistance Offset Test leads/fixture measurement offset may be universally applied

Ground Bond

Test Current: 1 to 30Arms (42A peak), 50/60Hz
Accuracy : 2.5%+10mA
Resolution : settable to 0.01A at all levels
Compliance: > 4.5Vrms (6V pk) for all currents Method 4 terminal measurement

Resistance

Max Resistance: Up to compliance V limit at defined test current (4.5ohms max)
Min/Max Limits: Defined for each step, min may be set to none
Accuracy: 2.5%+3mΩ(<2A), 2mΩ(<6.5A), 1mΩ (otherwise)
Resolution : 0.1mΩ (>6.5A), 1mΩ (otherwise)

Resistance Offset

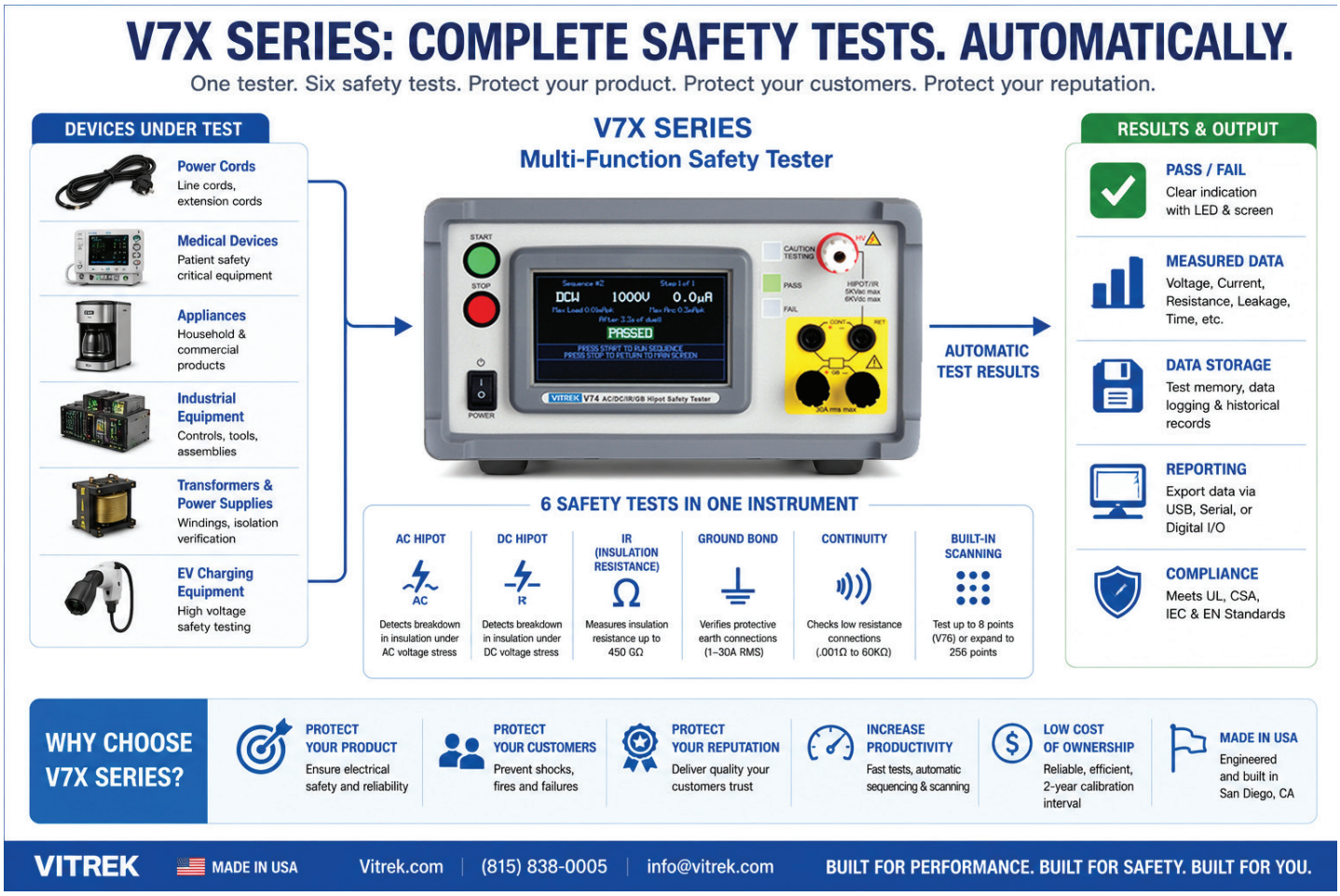
Test leads/fixture measurement offset may be universally applied.may be universally applied

Test Timing

Ramp Time For AC/DC Hipot: 0 to 99.9sec (0.1sec resolution, 0.05sec accuracy)
Test/Dwell Time: 0.1 to 9999sec or user end (0.1sec resolution, 0.15sec accuracy)
Ramp Down: May be set to 0sec or same as Ramp time, automatically skipped if no failure and next step is same AC/DC or IR test type.
Shutdown Breakdown: within 150us
HV Safety: within 1ms
User Stop or Interlock opened: within 2ms
Resistance/Current Limit: within 100ms Breakdown For Hipot tests, automatically checks for sudden uncontrolled increases of load current throughout test, no min/max leakage required. For complete specifictions visit us online at *www.vitrek.com*

Ordering Information

Model	Description	AC Hipot	DC Hipot	IR	Ground Bond	Low Resistance	HV Switching
V70	AC Hipot Tester	√	-	-	-	-	-
V71	AC/DC Hipot Tester	√	√	-	-	-	-
V73	AC/DC/IR Hipot Tester	√	√	√	-	-	-
V74	Electrical Safety Tester	√	√	√	√	√	-
V76	Multi-Channel Safety Tester	√	√	√	-	√	16 Ch Built-in
V77	AC/DC/IR + Low Resistance Tester	√	√	√	-	√	-
V79	Ground Bond & Low Resistance Tester	-	-	-	√	√	-



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Which product is right for you?
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VITREK

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