



V50 Series Electrical Safety Testers



Automated AC/DC Hipot, Insulation Resistance and More

Unbeatable Value Pricing

Vitretek's new V50 Series Electrical Safety Testers have just made the process of obtaining an automated, multi-function electrical safety tester a whole lot easier. These compact, feature-rich testers are available in four models – so you can choose the functions you need to get the job done, without having to pay for the things you don't need. And when it comes to getting the job done, the Vitrek V50 Series comes loaded with standard features that help you automate the task at hand.



If you need one of these labels on your product, insist that the Vitrek label is on your Electrical Safety Tester. That's because the Vitrek V50 Series has been engineered and manufactured to meet the most demanding electrical product safety test requirements. So, whether your job is on an automated production line or in a product safety engineering lab, the V50 Series packs the performance you need to get the job done right – at a value price that won't break your budget.

Not Just a Bare Bones Hipot Tester

At Vitrek when we talk about value and economy in the V50 Series, we're not talking about a low end, stripped down tester. We've built in the features you need at a price that you can't afford to pass up.

Features like – one touch automatic testing, 36 position test memory, built-in PC Interface, digital ramp and dwell, no load setting of min/max trip currents, as well as, full line and load regulation. Couple these features with high reliability, reduced component count, VLSI surface mount construction and it becomes exceedingly clear that the V50 Series should be your next Electrical Safety Tester. Isn't it about time you put Vitrek's legendary reputation for quality and reliability to work for you?

- Fully Automated Testing at the Touch of a Button or via PC Control
- 4 Models to choose from – Select the functions you need to get the job done
- Available Quicktest™ Test Automation Software for your PC
- AC Hipot to 5kV with 20mA Sourcing
- DC Hipot to 6kV with 7.5mA Sourcing
- Insulation Resistance to 10 GΩ with selectable 500 & 1000 VDC Outputs
- Ground Continuity Measurement to 0.001Ω
- Built-in 36 Step Test Memory
- Programmable Ramp & Dwell Times, Output Voltages and Limits
- Selectable Arc Detection
- Front Panel Lockout Feature
- CE Mark Certified to EN61010
- Three Year Extended Warranty



V50 Series Performance Specifications

AC Hipot

Voltage Range: 100 to 5000 VAC RMS
Voltage Setting Resolution: 5V/step
Voltage Regulation: 1% of reading + 5V
Voltage Accuracy: 1% of reading + 5V
Voltage Monitoring: At Output Terminals
Max Output Current: 20mA for 60s,
10mA continuous
Min/Max Current Limits: 0.01 to 20mA
Current Accuracy: 1% of reading + 0.05mA

DC Hipot (V51, V53 only)

Voltage Range: 100 to 6000 VDC
Voltage Setting: Resolution: 5V/step
Voltage Regulation: 1% of reading + 5V
Voltage Accuracy: 1% of reading + 5V
Voltage Monitoring: At Output Terminals
Max Output Current: 7.5mA
Min/Max Current Limits: 0.01 to 7.5mA
Current Accuracy: 1% of reading + 0.05mA

Insulation Resistance (V52, V53 only)

DC Output Voltage: 500V or 1000V
Resistance Range: 1 to 9999M Ω
Resistance Accuracy: 1 to 500M Ω 5% of reading,
501 to 2000M Ω 10% of reading

Continuity Measurement

Test Current: 100mA \pm 10mA
Resistance Range: .001 to 1.500 Ω
Resistance Accuracy: 0.1 Ω

General

Test Database: 6 Test Sequences with up to 6 steps per test sequence
Front Panel Lockout: Prevents database edit while in lockout mode
Arc Detect: 10 level trip select
Remote Interface: 9-pin D-sub connector with Outputs of Testing, Pass, Fail and inputs of Start, Reset. Output isolation is 400V with 130mA Continuous load current.
Power Source: AC100V, 120V, 220V, 230V (\pm 10% 50/60Hz), 250W max
Timer Accuracy: 0.05% \pm 50mS
Operating Environment: Indoor use, Altitude up to 6500ft (2000m). Installation Category II. Pollution Degree 2
Operating Temperature: 0 $^{\circ}$ C to 40 $^{\circ}$ C, 80% RH max.



The four V50 Series Electrical Safety Testers allow you to choose the model with the functions you need without having to pay for the ones you don't.

Storage Temperature: -10 $^{\circ}$ C to 70 $^{\circ}$ C, 70% RH max

Dimension: 17.6"L x 13"W x 5.9"H,
446(L) x 330(W) x 149(H)mm

Weight: 30 lbs (14kg) net, 34 lbs (16 kg) ship

Accessories: NIST certification, TL-2050 Test Leads, Instruction Manual and power cord

Accuracy: Stated specifications apply for 1 year at 23 $^{\circ}$ C \pm 5 $^{\circ}$ C

Calibration: Certificate of Calibration, traceable to NIST provided

Compliance: CE mark certified to EN61010 and EMC directives EN50081-1 & EN50082-2

Warranty: 3-Year extended warranty with annual factory calibration, 1 year parts and labor standard

QuickTest™ Software

Option QT-50: Bundled test automation software with PC interface adapter and cable. Easy to load Graphical test sequence development and operating environment. Provides time/date, operator, test parameters, and test results for review, printout or export to database program.

Ordering Information

V50 AC Electrical Safety Tester
V51 AC/DC Electrical Safety Tester
V52 AC/IR Electrical Safety Tester
V53 AC/DC/IR Electrical Safety Tester
QT-50 Bundled Quicktest Software with PC interface adaptor and cable
TL-1050 High Voltage Probe Lead Set.
TL-2050 High Voltage Alligator Lead Set.
TL-IEC50 IEC Socket Lead Set
OM-50 Additional Operators Manual

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