



# 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 $\Omega$   
**Resistance Accuracy:** 1 to 500M $\Omega$  5% of reading,  
501 to 2000M $\Omega$  10% of reading

## Continuity Measurement

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

## 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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