

# V60 Series Electrical Safety Testers



## Fully Automated AC/DC Hipot, Insulation Resistance & More

### Unbeatable Value Pricing

Vitretek's new V60 Series Electrical Safety Testers have just made the process of obtaining a fully automated, multi-function electrical safety tester a whole lot easier. These compact, feature-rich testers are available in three 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 V60 Series comes loaded with standard features that help you automate the task at hand. With the built-in RS232 interface, you can download and run test sequences, as well as, retrieve test results and data.



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 V60 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 V60 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 Barebones Hipot Tester

At Vitrek, when we talk about value and economy in the V60 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, 160 position test memory, built-in RS232, scanner control & PLC interfaces, 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 V60 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 RS232 & PLC Control

- 3 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 10GΩ with selectable 500 & 1000 VDC Outputs

- Ground Continuity to 0.001Ω

- Built-in 160 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



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# V60 Series Performance Specifications

## AC Hipot

**Voltage Range:** 100 to 5000 VAC RMS

**Output Voltage Increments:** 5V/step

**Voltage Accuracy:** 1.5% of reading + 10V

**Voltage Monitoring:** At Output Terminals

**Max Output Current:** 20mA, 10 seconds max above 10mA

**Current Limits:** 0.1 to 20mA

**Current Accuracy:** 1.5% of reading + 0.03mA

## DC Hipot (V61, V63 only)

**Voltage Range:** 100 to 6000 VDC

**Output Voltage Increments:** 5V/step

**Voltage Accuracy:** 1.5% of reading + 10V

**Voltage Monitoring:** At Output Terminals

**Max Output Current:** 7.5mA, 350K $\Omega$  minimum load impedance

**Current Limits:** 0.1 to 20mA

**Current Accuracy:** 1.5% of reading + 0.03mA

## Insulation Resistance (V63 only)

**DC Output Voltage:** 500V or 1000V

**Resistance Range:** 1M $\Omega$  to 9999M $\Omega$

**Resistance Resolution:** 100k $\Omega$

from 1 to 99.9M $\Omega$ , 1M $\Omega$  from 100M $\Omega$  to 9999M $\Omega$

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

## Continuity Measurement

**Test Current:** 100mA  $\pm$  10mA

**Resistance Range:** .001 $\Omega$  to 1.500 $\Omega$

**Resistance Accuracy:** 0.075 $\Omega$

## General

**Test Database:** 10 Test Sequences with up to 16 steps per test sequence

**Front Panel Lockout:** Prevents database edit while in lockout mode

**Arc Detect:** 10 level trip select

**Serial Port:** 9600 Baud, fully bi-directional RS232 interface with PC cable included

**GPIB:** Option GP-V60, IEEE-488 interface

**PLC 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



The V60 Series rear panel layout includes three standard remote interfaces: A fully programmable RS232 port, a PLC Interface port and a High Voltage Scanner control port. Available options include GPIB and rear terminal outputs.

**Timer Accuracy:** 0.25%  $\pm$  50mS

**Power Source:** AC 100V, 120V, 220V, 230V ( $\pm$  10% 50/60Hz), 250W max

**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

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

**Dimensions:** 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 (16kg) ship

**Accessories:** NIST certification, TL-20-60 Alligator Test Leads, serial interface cable, instruction manual and power cord

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

**Calibration:** ANSI/NCSL Z540 Certificate of Calibration, with data, traceable to NIST provided

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

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

## QuickTest™ Software

**Option QT-60:** Test automation software. Easy to load graphical test sequence development and operating environment. Provides time/date, operator, test parameters, test results and readings for review, printout or export to database program

## Ordering Information

**V60** AC Electrical Safety Tester

**V61** AC/DC Electrical Safety Tester

**V63** AC/DC/IR Electrical Safety Tester

**QT-60** QuickTest™ Software (Serial and GPIB)

**GP-V60** GPIB Interface

**GP-1**

**GP-2**

**RPO-60** Rear Panel Output

**TL-10-60** High Voltage Probe Test Lead Set

**TL-20-60** High Voltage Alligator Lead Set

**TL-TP-60** HV Test Pistol Probe Set

**TL-IEC-60** IEC Socket Lead Set

**V16** 16 Channel HV Scannerf

**V17** 8 Channel HV/8 Channel High Current Scanner

**OM-60** Additional Operator's Manual

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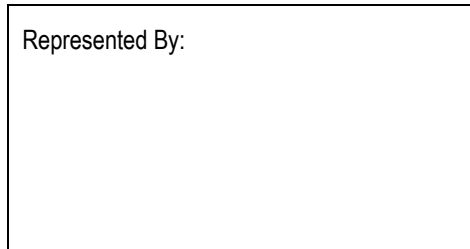
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