

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



WORLD LEADERS IN COMPLIANCE AUTOMATION SM

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 Ω 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 Ω to 9999M Ω

Resistance Resolution: 100k Ω

from 1 to 99.9M Ω , 1M Ω from 100M Ω to 9999M Ω

Resistance Accuracy: 1M Ω to 500M Ω 5% of reading, 501M Ω to 2000M Ω 10% of reading

Continuity Measurement

Test Current: 100mA $\pm$ 10mA

Resistance Range: .001 Ω to 1.500 Ω

Resistance Accuracy: 0.075 Ω

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

GPIO: 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°C to 40°C, 80% RH max

Storage Temperature: -10°C to 70°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°C $\pm$ 5°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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