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V4 Electrical Safety Analyzer

AC & DC Hipot plus Insulation Resistance and Ground Bond



Everything You Need in a 4-in-1 Safety Tester for an Exceptionally Low Price

Only Vitrek – world leaders in electrical safety test automation – could build a feature rich, full function 4-in-1 electrical safety tester with performance this high and a price this low. The new Vitrek V4 combines AC Hipot to 5KV, DC Hipot to 6KV, insulation resistance to 10 gig-ohms and high current ground bond measurement up to 40 amps – all in one compact, automated instrument.

The performance of the V4 is uncompromising.

The V4 delivers fast, consistent, reliable results – test after test. And it does all this from a single test connection with the touch of a button or with available Quick *Test* software – the stroke of a keyboard. The V4's crystal clear LCD user interface is remarkably easy to use, yet provides an abundance of



information. Test results for a sequence of up to 16 tests can be viewed on a single screen. The V4's Multi-mode IR™ capability, lets you choose the operating format for insulation resistance testing and with outputs available from 50 to 1000V − you're sure to find the test voltage you need.

The V4 suits your needs.

Whether you need a workhorse for everyday production line testing or an analytical unit for product safety engineering you'll find that the multi-function V4 is loaded with all the features you need to get the job done right - powerful features, including programmable ramp and dwell times, automatic calibration, SFI™ safety fault interrupt, 160 position user memory, selectable arc detection, scanner control port, bi-directional RS-232 and available GPIB interface. When you put it all together there is no comparis on. The V4 is the new undisputed champion of electrical safety testers.

Vitrek V4 Advantages

- Tests to UL, CSA, IEC & TUV specifications
- 4 EST functions in 1 compact, feature-rich instrument
- Up to 5KVAC 40mA
- Up to 6KVDC 10mA
- Multi-mode IR 50-1000V up to 10,000MO
- Ground Bond up to 40Amps
- Leakage current measurement down to 10µA
- Fully programmable RS-232 & HV scanner control port, optional GPIB interface
- Selectable arc detection
- Safety Fault Interrupt (SFI)™ circuit
- CE mark certified
- 10 position test sequence memory
- 3 year extended warranty

V4 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 + 10V
Voltage Monitoring: At Output Terminals
Output Current: 30mA to 40mA 180S max,
0 to 30mA continuous. Below 500V 10mA max

Min/Max Current Limits: 0.1 to 40mA Current Accuracy: 1% of reading + 50μA

DC Hipot

Voltage Range: 100 to 6000 VDC
Voltage Setting: Resolution: 5V/step
Voltage Regulation: 1% of reading + 5V
Voltage Accuracy: 1% of reading + 10V
Voltage Monitoring: At Output Terminals
Max Output Current: 10mA continuous, below

500VDC 2mA continuous

Min/Max Current Limits: 0.01 to 10mA Current Accuracy: 1% of reading + 50μA

Insulation Resistance

DC Output Voltage: 50, 100, 500 or 1000V

Resistance Range: 1 to 9999MΩ Resistance Accuracy: (% of reading)

50, 100 VDC	1-50MO 5%			
	51-200MO 10%			
	201-1999MO 20%			
500, 1000	1-500MO 5%			
VDC	501-2000MO 10%			
	2001-9999MO 20%			

Multi-Mode IR™: Select 1 of 3 modes - test passes on good reading, test fails on bad reading, pass/fail determined at end of test time.

Ground Bond / Continuity

Test Current: 3A to 40 amps RMS Terminal Configuration: 4 wire Kelvin Resistance Range: 0 to $600m\Omega$

Resistance Resolution: $100\mu\Omega$

Resistance Accuracy: 1% reading $\pm 3m\Omega$ Compliance Voltage: 8 volts at terminals

Current Resolution: 0.01A Voltage Resolution: 0.01V

General

Test Database: 10 test sequences, up to 16 steps each 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 Interfaces: Fully interactive RS232, - PLC interface, scanner control port – all standard

talk/listen GPIB interface - option GP-V4

Timer Accuracy: 0.25% ± 50mS **Power Source:** AC100V, 120V, 220V, 230V (±10% 50/60Hz), 350W 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 Storage Temperature: -10°C to 70°C, 70% RH

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

Weight: 33lbs (15kg) net, 40 lbs (18 kg) ship Accessories: NIST cal cert, TL-2050 & K-2 test leads, instruction manual and power cord Accuracy: Stated specifications apply for 1

vear at 23 °C ± 5 °C

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

Quick*Test*TM **Software**

Option QT-V4: Bundled test automation software and PC serial interface cable. Easy to load graphical test sequence development and operating environment. Provides time/date, operator, test parameters, test results and readings. Results may be viewed, printed out or exported to a database program.

Ordering Information

V4 Four-in-1 Electrical Safety Tester

GP-V4 GPIB Interface Option

QT-V4 Bundled Quicktest Software with Serial

Cable

TL-115-4 Hipot/GB Outlet Test Adaptor **TL-1050** High Volt Probe Lead Set **TL-2050** High Volt Alligator Lead Set

TL-IEC4 IEC Socket Lead Set

K-2 High Current, 4-wire,2 Clip Kelvin Lead Set **K-4** High Current, 4-wire, 4 Clip Kelvin Lead Set

RPO-4 Rear Panel Output Terminals

RM-4 Rack Mount Kit

Represented By:		



For more information call: 858 689 2755 or Email Info@vitrek.com

Specifications subject to change without notice.