

# Everything You Need In a 4-in-1 Electrical Safety Analyzer



**For about half the price you would expect to pay**

The new Vitrek V4 Electrical Safety Analyzer combines AC & DC Hipot with high current ground bond and insulation resistance testing, all in one feature rich, fully automated, easy to use instrument.

The uncompromising performance of the V4 delivers fast, consistent, reliable results – test after test. And it does it from a single test connection. The V4's crystal clear LCD user interface is remarkably easy to use and has all the information you need to get the job done right.

## **Vitretek V4 Advantages**

- 5KVAC 40mA, 6KVDC 10mA
- Ground Bond 3 to 32 Amps
- Multi-mode IR 50 to 1000V
- SFI Safety Fault Interrupt
- RS232 Standard, available GPIB
- High Speed Discharge
- 36 position Memory
- Selectable Arc Detection
- PLC Remote Interface

## 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	1-50MΩ 5% 51-200MΩ 10% 201-1999MΩ 20%
500, 1000 VDC	1-500MΩ 5% 501-2000MΩ 10% 2001-9999MΩ 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 32 amps RMS  
**Terminal Configuration:** 4 wire Kelvin  
**Resistance Range:** 0 to 600mΩ  
**Resistance Resolution:** 100µΩ  
**Resistance Accuracy:** 1% reading ±3mΩ  
**Compliance Voltage:** 8 Volts at terminals  
**Current Resolution:** 0.01A  
**Voltage Resolution:** 0.01V

### 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 Interfaces:** Fully interactive RS232 - Standard. PLC interface with Outputs of Testing, Pass, Fail and inputs of Start, Reset - 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-2Test Leads, Instruction Manual and power cord

**Accuracy:** Stated specifications apply for 1 year 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

### QuickTest™ 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 PC

**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

**RM-4** Rack Mount Kit