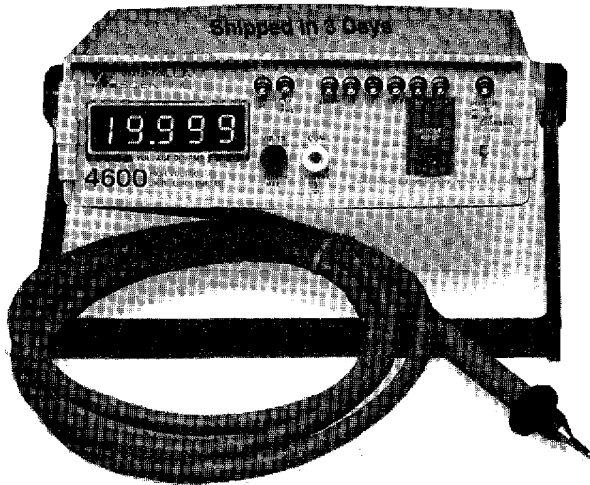


# 40 Times More Accurate Than a 40 KV High Voltage Probe

## True RMS High Voltage Digital Voltmeter



### Feature Packed with User Benefits

- ☑ Easy to Read 4½ digit LED display (20,000 counts)
- ☑ **True RMS AC or DC Voltage** - accurately measures choppy, sawtoothed or non-sinusoidal waveforms.
- ☑ 6 Voltage Ranges **200mv to 20 KV**
- ☑ Includes **Safety Locking High Voltage Input Leads**
- ☑ **Battery Isolation for protection at High Potentials**
- ☑  $\pm 0.05\%$  basic accuracy for **DC to 20 KV**
- ☑ Optional "**Peak Hold**" locks in maximum RMS value
- ☑ Includes **N.I.S.T. Traceable Calibration Certification**
- ☑ **Safety Isolated High Voltage Input Terminal**
- ☑ Excellent Value: Priced Affordable

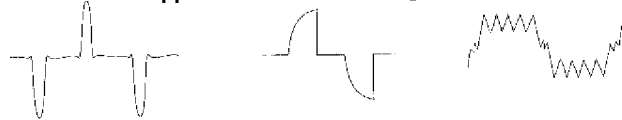
### 42 KV pk-pk Direct Measurement Capability

The Valhalla 4600's high accuracy KV ranges make it ideal for a variety of HV applications. It's a must for quick, accurate, direct high voltage measurements on CRTs, high voltage power supplies, VGA monitors, transformers, Hi-Pot Testers, electrostatic discharge voltages, and more. The maximum input is 42 KV pk-pk (15 KV RMS) AC or 20 KV DC. The 4600 is 40 times more accurate than the typical 2-4% High Voltage Probe measurement.

### Safety Inputs - Battery Powered Isolation

Direct measurement of high voltages with the Valhalla 4600 avoids the attenuation and accuracy losses associated with a 40 KV HV probe. HV probes heat up when in use and because they have a poor temperature coefficient of resistivity (TCR), accuracy losses greater than 4 % are common. For safety and accuracy reasons, the 4600 includes a non-attenuating yet heavily insulated HV lead set. The internal 4600 HV resistive attenuator has a low TCR thus avoiding the large accuracy loss commonly encountered in a HV measurement. Floating battery powered operation of the 4600, complete with rechargeable batteries and charger, insures total isolation from the AC power line (no arcing to neutral).

H.V. Power Supplies    Rectified Voltages    Ballasts



### True RMS AC Voltage to 15 KV with Accuracy

For AC pulsed or distorted waveforms even at high potentials (15 KV), the Valhalla 4600 True RMS measurement provides accurate readings regardless of waveform. The bandwidth to 20 kHz assures accurate and consistent readings including total harmonics in a variety of non-sinusoidal powered applications. Surge potentials and voltage burst events may be accurately measured using the optional 'peak hold' feature.

### "Peak Hold" Locks in The Maximum Reading

The optional "Peak Hold" feature provides a useful measurement for a variety of product test applications. Voltage breakdown levels, surges, transients and pulsed outputs can be accurately measured using the "Peak Hold" of the 4600 High Voltage Voltmeter. Transformer outputs can be tested for their **high voltage breakdown levels**. Even after the voltage drops off, the 4600 "peak hold" option stores the highest reading (displayed in RMS).

### Applications and Uses

In the calibration lab the Valhalla 4600 has the accuracy to make calibration of Hi-Pot Testers and High Voltage Power Supplies a snap. On the production floor it is an excellent Q.C. tool for testing lamp ballasts, transformers, VGA monitors, and more. In the test bay it makes checking oscilloscope displays, CRTs, ionizers, X-ray, and high voltage pulsing equipment a breeze.

### One Year Specifications

#### DC VOLTAGE

**Ranges:** 200mV, 2V, 20V, 200V, 2 KV, and 20 KV  
**Accuracy:**  $\pm 0.05\%$  of reading  $\pm 0.025\%$  of range  
**Input Impedance:** 1000 M $\Omega$  on 200mV, 2V range; 100 M $\Omega$  on 2 KV, 20 KV; 10 M $\Omega$  on the 20 V, and 200V ranges.  
**Maximum DC Input:** 20 KV DC maximum

#### AC VOLTAGE - True RMS Measurement

**Ranges:** 200mV, 2V, 20V, 200V, 2 KV, and 15 KV  
**Accuracy:**  $\pm 0.1\%$  of rdg  $\pm 0.1\%$  of rng for 20 Hz to 5 KHz;  
 $\pm 0.5\%$  of reading  $\pm 0.1\%$  of range for 5 KHz to 20 KHz;  
**Input Impedance:** same as DC  
**Maximum AC Input:** 42 KV pk-pk / 15 KV AC RMS

**Temperature Range:** 0°C to 50 °C

**Conversion Rate:** 300 milliseconds per reading

**Higher Ranges:** 30 KV model and other versions available

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