

# DIGITAL VOLTMETERS & PHASERS



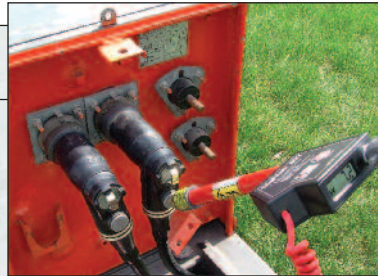
The DigiVolt-80 products are compact, high accuracy digital voltmeter and phasing instruments designed to measure voltages up to 40kV and up to 80kV when used with a pair of add-on resistors. The two-stick design can be used in both overhead and underground applications. The digital meter displays the true RMS voltage on the conductor.

The DVM-80 units incorporate Phase Accurate Technology which makes all voltage readings, whether made from line-to-line or line-to-ground, accurate and repeatable to within 1%. The DVM-80 products are the only digital high voltage meters to include this technology for high accuracy voltage measurements.

The DigiVolt-80T includes an elbow test point mode, which is displayed by a blinking decimal point. Simply press the ON button to activate and de-activate this feature.

## FEATURES

- Provides consistent line-to-line measurements
- High accuracy voltage measurements – within 1% of reading
- Compact, rugged and lightweight
- Measures up to 40kV (line-to-line or line-to-ground) without add-on resistors, and up to 80kV (line-to-line or line-to-ground) with add-on resistors
- Take measurements of elbow test points with the DVM-80T
- Measures both AC and DC voltages
- Measures DC through 1000Hz AC RMS
- Auto-ranging 3.5 digit LCD display
- Backlit display for easy reading in bright or dark conditions
- Auto-shutoff to prevent extended battery drain
- Low battery feature
- Flush mount ON switch - prevents field damage
- Built-in universal splines for standard hotstick attachment
- No range selector switch or settings required
- Coiled connecting cord
- Powered by a standard 9V lithium or alkaline battery (included)
- Includes two (2) hook style overhead brass probes and carrying case
- Kits are available, contact factory for details



DVM-80T Taking  
Elbow Test Point  
Measurement

## APPLICATIONS

- Measure voltage and phase conductors on both overhead and underground systems
- Verify a conductor is de-energized prior to grounding
- Determine if multiple conductors are in-phase or out-of-phase
- Test underground cable for faults (optional Cable Fault Tester and bushing probes required)
- Discharge underground cables and other equipment that hold capacitive charges
- Test point mode on DVM-80T allows measurements and phasing on elbow test points

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## ACCESSORIES

- Add-on resistors for measurements to 80kV - R-80 (optional)
- Underground Bushing Probes - 15kV, 25kV and 35kV (optional)
- General Contact Probe – for use on switchgear (optional)
- Cable Fault Tester - CFT-35 (optional)
- Proof Tester with 5000V Output - PT-5000B (optional)
- Hotsticks (optional)
- Overhead Pigtail Probes (optional)
- Adapter for Shotgun Hotstick - HSA-2500 (optional)
- Carrying case (included)
- Overhead hook probes (included)

## SPECIFICATIONS

### Operating Voltage Range: 50V - 40kV

(0.05kV-19.99kV and 20.0kV-40.0kV)

- up to 80kV with add-on resistors (multiply reading by a factor of two)

### • Accuracy

- Within 1% of reading +/- 3 counts
- With R-80 add-on resistors installed - within 2% of reading +/- 3 counts (line-to-ground & line-to-line measurements)

### Operating Temperature Range:

-13°F to +131°F (-25°C to +55°C)

### Operating Frequency: 50-1000Hz AC/DC

### Dimensions:

Length (w/o probes): 15" (38cm)

Display housing: 5"W x 4.25"L x 1.38"H  
(13cm x 11cm x 3.5cm)

Diameter of fiberglass: 1" (2.54cm)

Connecting Cord Length:

12' (3.6m) fully extended, 3.5' (1.7m) retracted

### Weight: (w/o probes): 2.25 lbs. (1.02kg)

### LCD Numeral Height: 0.4", indicates 3.5 digits

### Battery Life: 17 hours continuous use

## ORDERING INFORMATION

<b>DVM-80</b>	Dual Stick Phasing Voltmeter, 50V-40kV, includes overhead hook probes and carrying case. Powered by a field-replaceable 9V lithium or alkaline battery (included).
<b>DVM-80T</b>	Dual Stick Phasing Voltmeter, 50V-40kV with Capacitive Test Point Mode, includes overhead hook probes and carrying case. Powered by a field-replaceable 9V lithium or alkaline battery (included).
<b>CS-DVM</b>	Hard Plastic Foamed Carrying Case holds DVM-80 with overhead hook probes, PT-5000B and R-80 resistors.
<b>025-OLPS-5</b>	Overhead Hook Brass Probe.
<b>025-OLPS-6</b>	Overhead Pigtail Brass Probe.
<b>R-80</b>	Add-on Resistor for DVM-80 units (pair required).
<b>PT-5000B</b>	Voltmeter Proof Tester® with 5,000 Volt Output. Powered by a field-replaceable 9V lithium or alkaline battery (included).
<b>ASP-15/25</b>	Underground Adapter Bushing, 15 and 25kV Class
<b>CFT-35</b>	Underground Cable Fault Tester, 15, 25 and 35kV Class
<b>GCP-1</b>	General Purpose Insulated Probe
<b>S-4H</b>	4' Fixed Length Fiberglass Hotstick

\* Kits and other accessories are available, contact factory for details.

All sales are subject to the terms and conditions of the Limitation of Warranty and Liability set forth in the product Instruction Manual and at [www.HDElectricCompany.com](http://www.HDElectricCompany.com).

Users must read and agree to the Limitation terms, as stated, before using the product.

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DVM-80 Kit with PT-5000B Proof Tester® and pair of R-80 add-on resistors



CFT-35

ASP-15/25

GCP-1