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**Live Line Tools and Grounding  
Assemblies for Electrical Workers**

Made in the USA

## World Leader in High Voltage Test Equipment



Bierer & Associates, Inc. has established itself as a world leader in the manufacturing of personal high voltage test equipment for Utilities, Industries and Contractors worldwide. Founded in 1985, Bierer & Associates, Inc. prides itself in establishing personal and professional relationships with our customers, ensuring product reliability and most importantly - Safety!

Our continuous innovation and numerous patents, more than any other company in the industry, has established Bierer Meters with many firsts in the industry. Starting with our revolutionary PD Series Meters, the PD25 and PD50, a meter that replaces numerous single use devices to save you time and money. The industries first and only Wireless Phasing Meter, the PD800W, that displays the actual phase angle relationship and also works as a stand-alone voltage detector. The industries first and only, Wide-Range-Voltage Detector, the VDA0300 or VDA0450, a voltage detectors that can be used on distribution and transmission voltages without the use of multiplier switches or add on devices. Our AV (Audio/Visual) Voltage Indicators, a fully customizable voltage indicator to suit the needs of your utilities voltage ranges, very affordable and fully repairable. The GT400HDXL or GT600VMA Grounds Testers, the first and only tester that circulates true ASTM current through jumper or grounding cables or assemblies.

Our full product list can be viewed at [www.BiererMeters.com](http://www.BiererMeters.com) or give us a call at (803)786-4839 and someone will be more than happy to assist you in determining what fits your specific needs the best. Phasing Meters, Voltage Detectors, Grounding Testers, Bierer & Associates, Inc. has been at the leading edge of technology in our industry for years, but more importantly is how we also lead the industry in Safety!

***Check us out and give us a call Today!***

**For more expanded product information, please visit [bierermeters.com/products](http://bierermeters.com/products)**

## PD25 Phasing Digital 25kV

- Completely Shielded Interconnect Cable (Insulated 35kV to Ground), that Does NOT Have to be Held Off of Grounded or Live Objects for Fear of Shock or Interfering with the Reading
- Multiple Ranges 2kV, 20kV, 25kV
- Interconnect Cable Lengths up to 100ft.
- Patented Input Circuitry
- The Most Accurate High Voltage Meter Available, with Accuracy to +/- 1%
- Both Probes are Impact and Water Resistant Designed to Withstand Wear
- Both Probes are Stored in Either a Highly Durable Padded Carrying Case or a Canvas Bag
- Extension Resistors available for voltages up to 75kV



PD25 Switch Positions

The PD25 is a 0-25kV all-in-one phasing voltmeter with numerous applications.

- Capacitive Test Point Phasing Meter
- Regulator Neutral Detector
- Measure True RMS Voltages
- Commercial/Industrial Meter
- Phasing or Measuring Secondary Voltages, Replacing 600V Voltmeters
- Conventional Phasing Voltmeter for Overhead and URD Systems from 0-25kV Phase to Phase
- DC and Multiple Frequency AC up to 400Hz
- High Line Resistive Voltmeter\*
- Phase Sequence/Rotation Meter\*
- DC Leakage Tester\* (lightning arrester tester)
- Hi Pot URD Cable\*
- DC Cable Tracer\*

\*Optional Adapter Required

## PD50 Phasing Digital 50kV

- Completely Shielded Interconnect Cable (Insulated 35kV to Ground), that Does NOT Have to be Held Off of Grounded or Live Objects for Fear of Shock or Interfering with the Reading
- Multiple Ranges 2kV, 20kV, 50kV
- Interconnect Cable Lengths up to 100ft.
- Patented Input Circuitry
- The Most Accurate High Voltage Meter Available, with Accuracy to +/- 1%
- Both Probes are Impact and Water Resistant Designed to Withstand Wear
- Both Probes are Stored in Either a Highly Durable Padded Carrying Case or a Canvas Bag
- Extension Resistors available for voltages up to 100kV



PD50 Switch Positions

The PD50 is a 0-50kV all-in-one phasing voltmeter with numerous applications.

- Capacitive Test Point Phasing Meter
- Regulator Neutral Detector
- Measure True RMS Voltages
- Commercial/Industrial Meter
- Phasing or Measuring Secondary Voltages, Replacing 600V Voltmeters
- Conventional Phasing Voltmeter for Overhead and URD Systems from 0-50kV Phase to Phase
- DC and Multiple Frequency AC up to 400Hz
- High Line Resistive Voltmeter\*
- Phase Sequence/Rotation Meter\*
- DC Leakage Tester\* (lightning arrester tester)
- Hi Pot URD Cable\*
- DC Cable Tracer\*

\*Optional Adapter Required

## ALL PURPOSE

# The PD Series® Utility Meters

The **Safest** most **Versatile** Meters Available Today!

The PD Series® All-Purpose Utility Meters are phasing voltmeters designed to replace numerous other meters that feature a single range and/or perform a single function.

## PD800W Phasing Digital Wireless

The **PD800W**® Cordless Phasing Tester accurately and easily operates in multiple applications including **phasing, voltage detection, phase sequencing and phase angle indication**. You will only need this one kit for three-phase secondary systems, capacitive test points, URD systems and overhead and transmission/substation systems. This unique tester operates like a conventional phasing tester, but **does not require an interconnecting cable or extension resistors**.

- **FCC Licensed** Wireless Technology
- The Meter Probe features a Large Easy-to-Read Digital Display with Backlight
- Both Probes feature High Intensity Color Coded LED Indicator Lights
- Both Probes are Impact and Water Resistant, Designed to withstand Wear
- Both Probes are Completely Shielded to Minimize Stray Field Interference
- Cordless Phasing Tool Direct Contact from 120V - 69kV, Distribution Systems
- Cordless Phasing Tool (Degree Position Only) Non-Contact from 69kV - 800kV, Transmission/Substation Systems
- Automatically Alerts User of a Delta/Wye Transformation by an Indicator Light Blinking
- Operating Range of 100ft.
- Kit is Stored in a Highly Durable Carrying Case Padded with Foam



## 81280 Analog Phasing 25kV

The **81280** is a unique tool in that it may be used as a conventional phasing meter, or the meter probe may be used as a stand-alone voltage detector on primary or secondary voltages or capacitive test points.

- Can be used as a Stand-Alone 25kV Voltage Detector without the Second Probe
- A Conventional 25kV Phasing Meter both Overhead and URD Applications
- Phase Capacitive Test Points
- A Large Easy to Read Analog Meter
- Meter Housing is Completely Shielded to Minimize Stray Field Indications
- An Insulated (35kV) Interconnect Cable with Second Probe
- Each Probe is Impact and Water Resistant
- Meter is Stored in a Highly Durable Padded Carrying Case



## Phasing Ranger 1 GPS Phasing Tool

The **Phasing Ranger 1** is a revolutionary Phase Identification device. No other phase identification device is easier to use when it comes to determining actual phase relationship in the field. All readings are **Real Time** readings, there are no calculations to be made or data to be transferred from one location to another. This **Smart Grid** Technology requires a **One Time** set-up procedure and then allows the user a permanent and reliable means of phasing, phase ID, mapping and tagging or general troubleshooting.

- Absolute Phase Identification
- Mapping & Tagging
- Transmission Phasing
- Distribution Phasing
- Secondary Phasing
- Mobile Substation Phasing
- Phase Sequence CW/CCW
- URD and Overhead
- Capacitive Test Point Phasing
- All General Phasing
- Flags Delta/Wye, Wye/Delta Transformations
- Simultaneous use of multiple Field units
- Usable from 120V to 765kV



## 83280 Analog Phasing 35kV

The **83280** is a unique tool in that it may be used as a conventional phasing meter, or the meter probe may be used as a stand-alone voltage detector on primary or secondary voltages or capacitive test points.

- Can be used as a Stand-Alone 35kV Voltage Detector without the Second Probe
- A Conventional 35kV Phasing Meter both Overhead and URD Applications
- Phase Capacitive Test Points
- A Large Easy to Read Analog Meter
- Meter Housing is Completely Shielded to Minimize Stray Field Indications
- An Insulated (35kV) Interconnect Cable with Second Probe
- Each Probe is Impact and Water Resistant
- Meter is Stored in a Highly Durable Padded Carrying Case

## VD1000 Voltage Detector 1000kV

The **VD1000** Digital Voltage Detector is designed for easily indicating AC voltage on Underground primary, Over head primary and Transmission conductors up to 999 kV. The large digital display can be seen and read at distances up to 50'. Unit is perfect for large system voltages from 4kV to 765kV Phase to Phase.

- Large LED Display
- LED Segment and Battery Test
- Standard 9 Volt Battery
- Water Tight Construction
- Black Sunshield
- Durable Modular Construction
- 1 Year Free Replacement Warranty
- 0-99.9 kV URD, 0-99.9 kV OH, 0-999kV OHT.
- Backlit continuous for nighttime use
- Rated for Indoor and Outdoor Use
- Most versatile and accurate unit in the utility industry
- Shotgun & Hot Stick Compatible (Universal Grip All Accessory)



**The Most Complete Wireless Phasing Sets Available in the Industry!**

## VDA040P Analog Voltage Detector 40kV

The **VDA040P** is a Dual Application Analog Voltage Detector.

- Detects 0-40kV Line to Ground (0-69kV Phase to Phase)
- A Proximity or Direct Contact on Overhead and Underground Systems
- Easy to Read Analog Scale
- Detect Voltage from the Ground on Bare Overhead Lines when Hand Held
- Test Secondary Voltage on Bare or Insulated Cables
- Test Capacitive Test Points
- The Detector Indicates Line to Ground Values for Nominal or Induced Voltages
- The 5 - Position Selector Switch is Calibrated for Height above Ground to Compensate for a Capacitive Coupling Effect
- Shielded to Minimize Stray Field Interference
- For Your Safety, the Detector Includes Overload Protection up to 500kV
- Internal Backlight available for Night Use
- Water Resistant, and a Strong Construction Designed to Withstand Wear
- Contained in a Highly Durable Padded Carrying Case



## VDA0450 Analog Voltage Detector 450kV

The **VDA0450** is a Wide Range Transmission and Distribution Voltage Detector.

- Widest and Highest Voltage Range Available in a Single Voltage Detector
- 2.4kV - 450kV Line to Ground (4kV - 765kV Phase to Phase) Voltage Range
- For Overhead and URD Applications
- Meter is Passive, Battery is Only Required for the Test Position
- A Linear/Logarithmic scale for Better Resolution from Distribution to Transmission Systems
- Meter is designed to Read Approximate Nominal or Induced Voltage Line to Ground
- Easy-to-Use Detector Requires no Voltage Scale Selectors or Multipliers
- Meter is Water Resistant and a Strong Construction to withstand Wear
- Meter is contained in a Durable Padded Case



## VDA040C Analog Voltage Detector 40kV

The **VDA040C** is a Dual Application Analog Voltage Detector.

- Detects 0-40kV Line to Ground (0-69kV Phase to Phase)
- A Proximity or Direct Contact on Overhead and Underground Systems
- Easy to Read Analog Scale
- Detect Voltage from the Ground on Bare Overhead Lines when Hand Held
- Test Secondary Voltage on Bare or Insulated Cables
- Test Capacitive Test Points
- The Detector Indicates Line to Ground Values for Nominal or Induced Voltages
- The 5 - Position Selector Switch is Calibrated for Height above Ground to Compensate for a Capacitive Coupling Effect
- Shielded to Minimize Stray Field Interference
- For Your Safety, the Detector Includes Overload Protection up to 500kV
- Internal Backlight available for Night Use
- Water Resistant, and a Strong Construction Designed to Withstand Wear
- Contained in a Highly Durable Padded Carrying Case



## VDAH300 Analog Voltage Detector 300kV

The **VDAH300** is a Wide Range Transmission and Distribution Voltage Detector that comes standard with a Hold feature and Backlight.

- Widest and Highest Voltage Range Available in a Single Voltage Detector
- 2.4kV - 300kV Line to Ground (4kV - 500kV Phase to Phase) Voltage Range
- For Overhead and URD Applications
- Meter is Passive, Battery is Only Required for the Test Position
- A Linear/Logarithmic scale for Better Resolution from Distribution to Transmission Systems
- Meter is designed to Read Approximate Nominal or Induced Voltage Line to Ground
- Easy-to-Use Detector Requires no Voltage Scale Selectors or Multipliers
- Meter is Water Resistant and a Strong Construction to withstand Wear
- Meter is contained in a Durable Padded Case
- Model with the "H" suffix comes with the Hold and Backlight Feature

## VDA0300 Analog Voltage Detector 300kV

The **VDA0300** is a Wide Range Transmission and Distribution Voltage Detector.

- Widest and Highest Voltage Range Available in a Single Voltage Detector
- 2.4kV - 300kV Line to Ground (4kV - 500kV Phase to Phase) Voltage Range
- For Overhead and URD Applications
- Meter is Passive, Battery is Only Required for the Test Position
- A Linear/Logarithmic scale for Better Resolution from Distribution to Transmission Systems
- Meter is designed to Read Approximate Nominal or Induced Voltage Line to Ground
- Easy-to-Use Detector Requires no Voltage Scale Selectors or Multipliers
- Meter is Water Resistant and a Strong Construction to withstand Wear
- Meter is contained in a Durable Padded Case



## VDAH450 Analog Voltage Detector 450kV

The **VDAH450** is a Wide Range Transmission and Distribution Voltage Detector that comes standard with a Hold feature and Backlight.

- Widest and Highest Voltage Range Available in a Single Voltage Detector
- 2.4kV - 450kV Line to Ground (4kV - 765kV Phase to Phase) Voltage Range
- For Overhead and URD Applications
- Meter is Passive, Battery is Only Required for the Test Position
- A Linear/Logarithmic Scale for Better Resolution from Distribution to Transmission Systems
- Meter is designed to Read Approximate Nominal or Induced Voltage Line to Ground
- Easy-to-Use Detector Requires no Voltage Scale Selectors or Multipliers
- Meter is Water Resistant and a Strong Construction to withstand Wear
- Meter is contained in a Durable Padded Case
- Model with the "H" suffix comes with the Hold and Backlight Feature



## AV Meter Audible/Visual Voltage Indicator

The **AV Meter** is a Voltage Indicator with an Audible and Visual Alarm to indicate the presence of voltage, with an operating range from capacitive test points/secondary voltage to 289kV Line to Ground (500kV Phase to Phase). Activation thresholds meets ASTM Requirements.

- Up to 12 available voltage settings that are completely customizable by the customer
- Meter Assembly is Over Voltage Protected
- Incidental Direct Contact Will Not Damage the Unit
- Watertight Construction
- Fully Repairable for a Low Cost of \$75 after 1 year Free Replacement Warranty Expires
- Super Bright LEDs and Ultra Loud Horn Guarantees Operator Seeing & Hearing Unit
- Built in Test Position is Standard for All Units
- May also be Used as a Direct Contact Voltage Detector
- Standard Universal/Grip All Adapter is Included with Every Unit



## VIAV300 Audible/Visual Detector 300kV

The **VIAV300** is a Combination Proximity/Direct Contact Voltage Detector with an Audible Visual Alarm to Indicate the Presence of Voltage, with an Operating Range from 240V to 300kV Line to Ground. Activation Threshold Meets ASTM Thresholds.

- Dual Application Design
- Audio/Visual Voltage Detector Detects 0 to 300kV Line to Ground (0 to 500kV Phase to Phase)
- An Easy-to-See 360 Degree Light Array with a 112 Decibel Alarm
- A Proximity or Direct Contact Meter on Overhead or Underground Systems
- Meter can Detect Voltage from the Ground on Bare Overhead Lines when Hand Held
- Test Capacitive Test Points and Secondary Voltage on Bare or Insulated Cables
- Detects Line to Ground Values for Nominal or Induced Voltages
- Water Resistant, and has a Strong Construction Designed to Withstand Wear
- Contained in a Highly Durable Cotton Bag



## VBI-15 Voltage Break Indicator 15kV

The **VBI-15** is a Direct Contact Voltage Break Indicator with an audible and visual alarm to indicate the absence of voltage, with an operating range from 7.2kV to 20kV (Line to Ground). The unit consists of an array of lights and an audible alarm to give the user a quick and clear indication that the overhead line has dropped below the threshold value of 2.5kV. The VBI-15 can be used by all forms of electrical entities; Investor owned utilities, municipalities, cooperatives, contractors, etc. to track outages by individual crews at their location on the system.

- VBI-15 Voltage Break Indicator is Activated when Voltage Levels Drop Below 2.5kV Line to Ground (4kV Phase to Phase)
- The VBI-15 is Used as a Silent Sentinel, the 112dB Horn and Array of Super Bright LED's are Activated when the Line becomes De-Energized.
- The Absence of Voltage Detector is Designed to be Used on Single Phase Nominal 7.2kV – 20kV Systems Line to Ground.
- Overload Protected to 115kV for Your Safety
- SAIDI and CAIDI Ratings Improve by Quicker Outage Response Time
- Water Resistant for Inclement Weather Use
- Strong Construction Designed to Withstand Wear
- Packaged in a Durable Canvas Bag



## RCDC1000 Rail/Catenary Direct Current 1000V

The **RCDC1000** Digital DC Resistive Voltmeter has a single range of 0 – 2kV. The unit consists of a meter probe, second probe and connector cable. This unit is designed to measure DC voltage between the negative return rail and overhead positive catenary conductor used on transit systems. The five position selector switch located on the face, controls OFF, ON, and Test. The OFF positions are for storage and transit. The ON position is for measurements from 0 to 1999 volts with one volt resolution. The T position tests basic meter functions and the digital display.

- A General Purpose 0 to 2kV DC Digital Voltmeter
- Designed to Confirm the Status of Electrical Systems
- Can be Used with Higher Currents than Hand-Held Models
- A Large Digital LCD Display has a Backlight for Easy Reading
- Both the Meter Probe and Secondary Probe have Threaded End Fittings
- The Unit Includes Three Adapters: a Hook Adapter, a Straight Adapter, and a Magnetic Track Adapter
- A 30-Foot Interconnecting Cable is also Included
- Meter is Water Resistant and has a Strong Construction Designed to Withstand Wear
- The Unit is Contained in a Highly Durable Carrying Case

**Customized Voltage Detectors!**

Voltage ranges from Proximity to 765kV

**A Range of Low Impedance and High Impedance DC Meters are Available!**

## ST500 Service Tester 500 Amps

The **ST500PGN** puts a high magnitude pulse between the neutral/hot leg or hot leg/hot leg for any secondary service (120V, 208, 277, 480V). It cannot be fooled by telephone and cable television bonding often missed by continuous loading devices.

- Identify bad conductor(s) from the transformer to the meter base
- Indicate integrity of neutral conductor to prevent excessive house ground currents
- Locate both hot legs and neutral at the pedestal and/or transformer blocks.
- Locate bad connectors on overhead spans
- Identify de-energized URD Primary cable in a manhole or ditch



## GT600VMA Grounds Tester Volt Meter Addition 600Amps

The **GT600VMA** provide quality testing for personal protective grounding assemblies. The GT Series Grounding Assembly Testers are designed to provide integrity testing of the electrical characteristics of portable protective grounding assemblies. The GT Series Testers provide a reliable test by administering **Rated ASTM Current** through the grounding assembly and measuring the voltage drop across the assembly. The voltage drop in conjunction with a thorough visual inspection determines if the grounding assembly meets ASTM electrical specifications.

- Powered by Conventional 115VAC Outlet Rated at 20 Amps or Higher
- Variable Transformer Allows ASTM Continuous Current to be Applied to Cable
- Compact and Easy to Read Reference Chart
- Optional Voltmeter Addition Allows for Troubleshooting Clamp and Ferrule Connections
- Easily Converts for Testing Elbows, Bushings, Mechanical Jumpers, Substation Clamps, Truck Grounds and Cluster Grounds
- Optional Adapters are Available for Special Applications



## GT400HDXL Grounds Tester Heavy Duty Extra Length 400Amps

The **GT400HDXL** or **GT400HDXLVMA** provide quality testing for personal protective grounding assemblies. The GT Series Grounding Assembly Testers are designed to provide integrity testing of the electrical characteristics of portable protective grounding assemblies. The GT Series Testers provide a reliable test by administering **Rated ASTM Current** through the grounding assembly and measuring the voltage drop across the assembly. The voltage drop in conjunction with a thorough visual inspection determines if the grounding assembly meets ASTM electrical specifications.

- Powered by Conventional 115VAC Outlet Rated at 20 Amps or Higher
- Variable Transformer Allows ASTM Continuous Current to be Applied to Cable
- Compact and Easy to Read Reference Chart
- Optional Voltmeter (suffix VMA) Addition Allows for Troubleshooting Clamp and Ferrule Connections
- Easily Converts for Testing Elbows, Bushings, Mechanical Jumpers, Substation Clamps, Truck Grounds and Cluster Grounds
- Optional Adapters are Available for Special Applications



## GRT1000 Ground Resistance Tester 1000 Ohms

The **GRT1000** is a major breakthrough for a traditional ground resistance tester. It is widely needed in the power, telecommunications, meteorology, oilfield, construction, industrial and electrical utility industry. For a loop grounding system, the operator can measure the ground resistance and test for continuity without having to break down the grounding wire, or use auxiliary electrodes (sometimes referred to as "stakes"). The clamp head is specially designed to reduce calibration errors by increasing the clamp pressure and the robust design of the transformers. **It is safe, fast and simple to use!**

## GRT1000A Ground Resistance Tester 1000 Ohms

The same great features as the GRT1000 but with the additional feature of being able to read unwanted grounding currents up to 15 Amps!

**Industry Leading Service Testers  
and Personal Ground Cable Testers!**

**Heavy Duty Ground Resistance Testers!**

## Jumper / Grounding Cable

**Jumper cable** rated for 0-15kV, 0-25kV and 35kV with EPR Insulation/Jacket. Available in sizes #2, 1/0, 2/0 and 4/0, it is extremely flexible even at low temperatures. This cable features an insulation/jacket combination resistant to abrasion, oil, heat, moisture and ozone. For easy identification, AWG size and voltage rating are embossed at 4-foot intervals. Insulation and conductor screen meet and exceed ICEA-NEMA standard S-68-516. For easy handling in adverse conditions, conductors are extra flexible alloy-coated copper-stranded rope for ASTM B-189 or B-33. All jumper cable are Type 1 per ASTM F 2321 Standard Specification.

**Copper grounding cable** is available in black, yellow and clear, sizes #2, 1/0, 2/0 and 4/0, it is extra-flexible for handling ease yet strong and tough for long wear. Jacketing is smooth, abrasion, weather and oil resistant in accordance with applicable ASTM Specifications, marked with AWG size approximately every 4 feet. Yellow and Black jacketed cables have a recommended low temperature rating of -20F while the Clear jacketed cable low recommended temperature rating is 0F. All grounding cables meet ASTM F 855.



## Jumper / Grounding Ferrules

**Shrouded Ferrules** overlap onto the grounding cable jacket for stress relief to the terminal. Two crimps secure the ferrule against the bare strands and one crimp applies on the jacket.

**Un-shrouded ferrules** do not overlap the grounding cable jacket. Both shrouded and un-shrouded ferrules are available as plugged or threaded, factory installed or available as separate individual units. All ferrules meet ASTM F 855.



## Jumper / Grounding Clamps / Accessories

Complete sets or individual parts are available for Substation, Distribution and Transmission applications. All clamps meet ASTM F 855.

