

# Underground Cable Network/Substation Test Equipment



- **Ammeter Clear Test Sets**
- **Safety Spark Gap System**
- **Tracing Current Transmitter Test Set**
- **Pick Method Tester**
- **Galvanometer**
- **Telescoping Stick for Pickup Coil**
- **AC VLF Fault Locator/Hipot/Burn Supply**
- **AC Vacuum Interrupter Test Set**
- **DC Hipots**
- **Ground and Discharge Sticks**



## Ammeter Clear Test Set, Model AC-5

- Used to determine if a feeder has any shorts or grounds applied
- 5 A AC test currents for positive ground/ ungrounded identification
- Self-check mode
- 3-phase connection



## Safety Spark Gap System, Model SG-6

- Can be used in conjunction with Ammeter Clear Test Set
- SG-6 is used when potential for back feed exists and to protect equipment but more importantly protect the worker
- Replaceable mica disks
- 100 V trigger voltage designed to withstand high fault currents



## Tracing Current Transmitter Test Set, Model TCT-30

- Used to perform continuity tests which prove the electrical path between two points on a feeder
- Assist in identifying phase sequence in man holes or vaults up to 30 A of pulse current
- Different pulse train for each phase
- Solid state switching
- Suitable for long cables
- Works with GALV and PMT units



## Combination unit also available, Ammeter Clear & Tracing Current Transmitter Test Set with Spark Gap, Model TCT/AC-30SG

- 3 units in 1 design
- Substation use
- Casters for easy mobility
- Integrated input and output cables



## Pick Method Tester, Model PMT-1

- Used to read sheath current (both magnitude and polarity)
- Used for fault locating as well as pinpointing HV faults
- Specifically designed for use with metallic cable sheaths
- Passive design requires no power
- Lightweight portable design
- Internal cable storage
- Very high sensitive readout for use during fault and cable identification



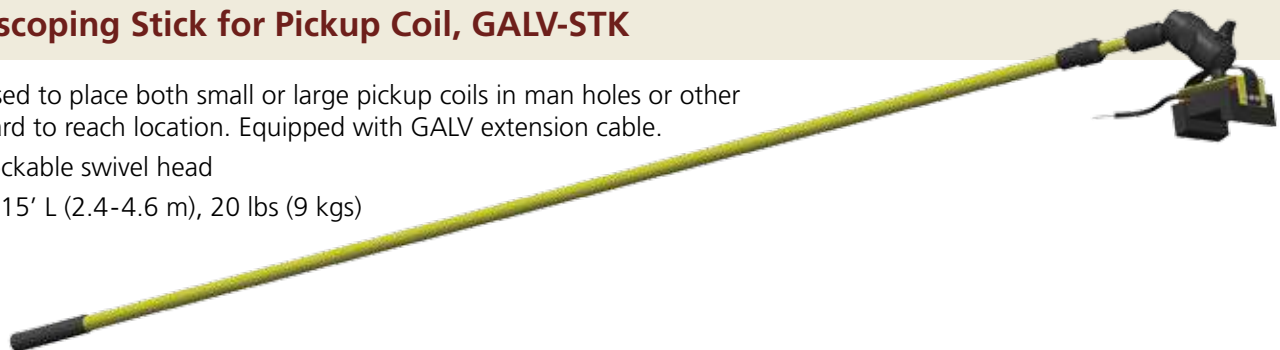
## Galvanometer, Model GALV-1B

- Used for measuring current by the deflection of a movable coil or a movable magnet
- Used to locate fault locating tracing current on HV feeders
- Used to positively ID feeders and phase markings (AØ, BØ, and CØ)
- Transformer based pickup coil
- Internal lead and coil storage
- Lightweight portable design
- Additional pickup coils available



## Telescoping Stick for Pickup Coil, GALV-STK

- Used to place both small or large pickup coils in man holes or other hard to reach location. Equipped with GALV extension cable.
- Lockable swivel head
- 8-15' L (2.4-4.6 m), 20 lbs (9 kgs)



## AC Vacuum Interrupter Test Sets, 40 kV and 60 kV

- Used primarily for vacuum interrupter testing; however, can be used for testing breakers, switchgear, and many other apparatus

Model  
640-0.4P



Model 660-10PA

### Models Available

640-0.4P  
660-10PA

### Output

0-40 kV, 10 mA  
+30 kVAC, total of 60 kV, 10 mA

### Optional accessories available

- Custom Cable Lengths

See brochure **no. 60107** for complete product details.

## DC Hipots, 40-200 kV

- Perform accurate DC hipot testing of electrical switchgear, cables, motors, generators, and protective equipment

### Models Available

440-20  
475-20  
4100-10  
4120-10  
4160-5  
460-6E

### DC Output

0-40 kV, 20 mA  
0-75 kV, 20 mA  
0-100 kV, 10 mA  
0-120 kV, 10 mA  
0-160 kV, 5 mA  
0-60 kV, 6 mA



Model 475-20

### B-Series available, models 440-20B and 475-20B

includes touch-screen display, autoranging meters, data acquisition

### Optional accessories available

- Safety Foot Switch
- Positive Polarity Output
- Custom Cable Lengths
- Hand Cart for models 4120-10 and 4160-5

See brochure **no. 40109** and **no. 40108** for complete product details.



Model 4200-5



Model 460-6E



## AC VLF Fault Locator/Hipot/Burn Supply

- This test set utilizes a very low frequency power supply for cable hi-potting along with DC supplies for fault burning and locating
- The test set is capable of testing system feeders ranging from 4 kV through 33 kV and up to 25 microfarad cable capacitance load tested at maximum voltage
- Systems for testing up to 138 kV Class are available
- Use cosine rectangular VLF waveform
- Internal grounding and discharge devices
- Automated systems with data acquisition and report generation
- Optional high power DC 20 A burn supplies
- Up to 7500 Joules of discharge energy

## Ground and Discharge Sticks

- Used for operator safety in high voltage testing

### Models Available

GS30 Ground Stick	30 kV AC/DC
GS100-2 Ground Stick	100 kV AC/DC
GS160-2 Ground Stick	160 kV AC/DC
DS100-2 Discharge Stick	100 kV DC
GSDS30 Combination Ground/Discharge Stick	30 kV AC/DC

See brochure **no. 40402** for complete product details.



**PHENIX**  
TECHNOLOGIES

### WORLD HEADQUARTERS

**Phenix Technologies, Inc.**  
75 Speicher Drive  
Accident, MD 21520 USA  
Ph: +1.301.746.8118  
Fx: +1.301.895.5570  
Info@phenixtech.com

### BRANCH OFFICES

**Phenix Systems AG**  
Riehenstrasse 62A, 4058 Basel, Switzerland  
Ph: +41.61.383.2770, Info@phenixsystems.com

### Phenix Asia

Zhong Cheng Rd, Sec 1, No 177, 2F, Taipei 11148 Taiwan  
Ph: +886.2.2835.9738, Fx: +886.2.2835.9879, Info@phenixasia.com

ISO  
9001:2008  
Compliant

