

PRODUCT SAFETY INFORMATION



WARNING

1. Meter assembly, interconnect cable assembly, and live line tool adapters shall be considered **non-insulating**. Do not let live line tool fittings come in contact with energized or grounded conductors. **The live line tool adapters, fittings, and handles shall not be used on any other devices.**
2. Use appropriate length live line tools for voltage being worked and maintain minimum approach distances as outlined in OSHA 1910.269, Table R-6.
3. All Phasing Meters and Voltage Detectors manufactured during and after 2007 will have a limit mark engraved on the high voltage probe(s) 2.5 inches from the tip to indicate to the user the physical limit that should not be exceeded when approaching and contacting an electrical conductor or other electrical test points. Zero Ohm insulated adapters (81280IE) should be used if limit mark will be exceeded.
4. This equipment should be used only by qualified employees, trained in and familiar with the safety-related work practices, safety rules and other safety requirements associated with the use of this type of equipment.
5. These instructions are not intended as a substitute for adequate training, nor do they cover all details or situations which could be encountered when operating this type of equipment.
6. Before operating this equipment, read, understand and follow all instructions contained in this manual. Keep instructions with equipment.

INSPECTION & MAINTENANCE BEFORE USE



WARNING

1. Prior to using any high voltage test equipment a careful inspection should be made to ensure the unit is free from any contaminants such as dirt, grease, etc. and that there are no apparent physical damages.
2. High voltage probe assemblies shall be wiped clean prior to each use with a silicone impregnated cloth and kept clean and free of contaminants. This will prevent tracking on the outside of the probe and meter error.
3. Always confirm internal battery voltage before and after use.

METER SET-UP and TESTING



WARNING

- see “Product Safety Information”, page 3.
- see “Inspection & Maintenance”, page 3.

1. Turn meter on and test basic meter functions by turning the function selector switch to the “**T**” position. If the battery voltage displayed is less than 8 volts (080), the battery should be replaced. Always test meter before and after each use.

2. Connect meter probe to second probe using interconnect cable. The interconnect cable has an insulation rating of 35kV.

3. Attach the meter probe and second probe to appropriate length live line tool for the voltage being tested.

TESTING ON KNOWN VOLTAGE

3a. Testing with 3kV power supply provided with PD50 and PD25:

- Turn on power supply.
- Turn selector switch to the 20kV position.
- Depress button on left side of power supply using either probe.
- Touch the other probe to the ground terminal on the right side of the power supply. The meter should indicate at least 2.5kV, if not; check all batteries, meter, and power supply.
- While depressing the button with either probe, make contact to the same button with the "other" probe. Meter should indicate near zero.

3b. Testing with 100V DC power supply. Accessory PN: PA100P

- Attach DC supply to either probe.
- Turn selector switch to the 2kV position.
- Bring both probe tips together. The meter should read at least 75 volts, if not check all batteries, meter and supply.

4. Select the appropriate range for the voltage being measured.

5. Retest the phasing voltmeter after each use.

PARTS & ACCESSORIES

PART NO.	DESCRIPTION
3402	Quick Change to Grip All Adapter
3403	Quick Change to Universal Adapter
8128TBALB	15 - 25kV Bushing Adapter
8128TEALB	15 - 25kV Elbow Adapter
81280FL	8 Foot Lead with Female Adapter
81280ML	8 Foot Lead with Male Adapter
81280ML30	30 Foot Lead with Male Adapter
81280ML40	40 Foot Lead with Male Adapter
81280ML100	100 Foot Lead with Male Adapter
81280LHM	Hook Adapter
81280LPM	Straight Probe Adapter
81280B1	6V Battery for Power Supply
* 81280ER	Pair, 50 Meg-Ohm Extension Resistors
PA25B	20" Storage Box with Foam
PA25T	3kV Power Supply
* PA50DCHP	DC Hi-Pot Adapter
PAH6TB	26" Storage Box for Handles
PA25LVA	Pair, Insulated Low Voltage Adapters
PD25PSA	Phase Sequence Adapter
PD50AB	Canvas Storage Bag for PD25/50
PD50B	26" Storage Box with Foam
PA100P	100 Volt Supply / Phase Identifier
* 81280IE	Zero Ohm Extension Probe 16"
* 81280FG	Alligator Clamp Adapter

*See additional information on Page 19