



**PHENIX**  
TECHNOLOGIES

# INSULATION ANALYZER MODEL PM5A

## APPLICATION

Periodic resistance testing of electrical windings can detect deterioration or contamination in the insulation which will shorten winding life. This testing is recommended to prevent major failures and to determine when corrective action should be taken.

PHENIX Technologies offers the PM5A as a multi-function insulation analyzer. This unit can be operated as a conventional **Megohmmeter/Hipot** or in automatic modes to perform a **Dielectric Absorption Ratio Test**, **Polarization Index (PI) Test** or **Step Voltage Test**. The test set provides up to 5kVDC and performs all necessary calculations to accurately determine the results. Test results can be viewed on the LCD Display or printed out via the built in printer.

## DESIGN & SAFETY FEATURES

- Battery Powered Operation
- Automatic operation with microprocessor control
- Guard circuit for stray leakage current bypass
- User selectable output voltage in 1 V steps (50-5000 V)
- Large easy to read LCD Screen Display
- 10 ft. (3 meter) output leads
- Audible Safety Warning
- Built-in Printer
- Integrated cable storage in lid
- Light weight, portable and enclosed in rugged, high density polyethylene carrying case

## OPTIONS

- Ground Stick
- Discharge Stick
- Infrared Remote Temperature Sensor (Handheld)



## TECHNICAL SPECIFICATIONS

**INPUT:** 100 VAC, 1.0 A to 240 VAC, 0.5A, 50/60 Hz  
or Internal Battery Power

	Resistance Range
<b>OUTPUT:</b> 500 VDC @ 2.0 mA	250k $\Omega$ -250G $\Omega$
1000 VDC @ 2.0 mA	500k $\Omega$ -500G $\Omega$
2500 VDC @ 2.0 mA	1.25M $\Omega$ -2.5T $\Omega$
5000 VDC @ 2.0 mA	2.5M $\Omega$ -5T $\Omega$

or User Selectable in 1V steps between 50V-5000 V.  
Negative Polarity, Positive ground

**METERING:** LCD Screen

Voltage: 4 ranges, 500/1000/2500/5000 VDC

Current: 5 ranges, 2000/200/20/2/0.2  $\mu$ A (auto ranging)

**ACCURACY:** Voltage:  $\pm$ 1% of Reading, >5% of Range  
Current:  $\pm$ 1% of Reading, >5% of Range

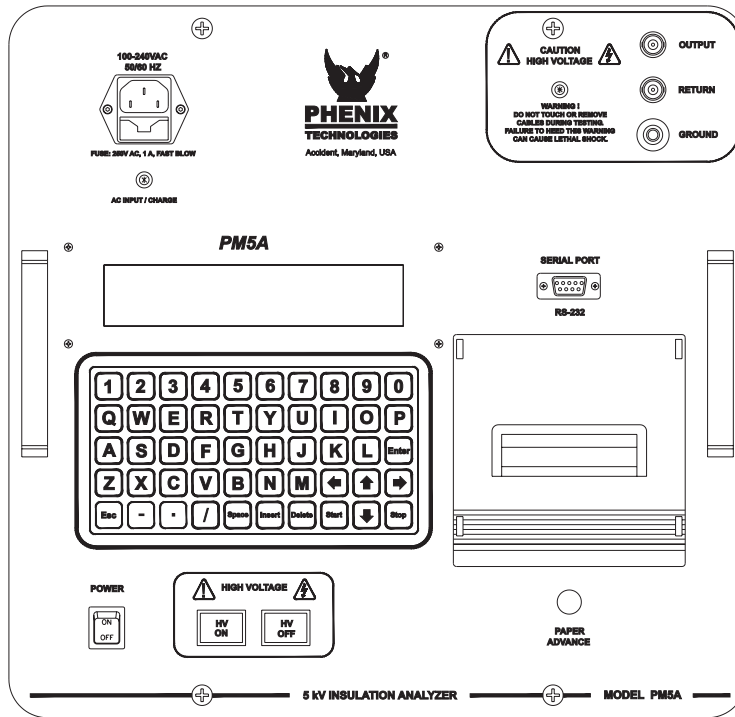
**INPUT CABLE:** 7' (2m), 3 wire, removable

**OUTPUT CABLES:** 3 cables, each 10' (3m) long for voltage, return and ground.

**DIMENSIONS:** 16.5" (419mm) W x 15.25" (388mm) D x  
11.25" (286mm) H

**WEIGHT:** 27 lbs.(12 kgs)

# CONTROL PANEL LAYOUT



*Note: Due to continual development, specifications are subject to change without notice.*

## COMPANY PROFILE

PHENIX TECHNOLOGIES is a leading manufacturer of high voltage, high current, and high power test systems and components. Our test systems are in operation around the world satisfying the testing requirements of our customers.

Our 65,000 square foot headquarters is a modern manufacturing facility where all the major components of our systems are produced. All aspects of electrical and mechanical design, software design and actual production are performed in this facility and controlled by an ISO9001 quality program. Our engineers offer a unique blend of theoretical knowledge and practical experience. Our ever-expanding Service & Calibration Department stands ready to assist you during and after installation to insure years of trouble free service.

Our engineering resources, manufacturing capability and commitment to flexibility have earned us the reputation as the supplier of choice. From portable test equipment to large, cutting edge automated test systems, PHENIX Technologies provides solutions for your testing needs. You owe it to yourself to discuss your testing requirements with PHENIX Technologies today.

Your Local Representative is:



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