

PCA-Lab™ Standards Test

PCA-Lab Standards Test Software is a Windows™ based software package which automates laboratory testing of energy reference standards. Testing parameters include voltage, current, phase angle and measurement function. Test sheet templates are created and saved for repeated use. PCA-Lab allows for the automated testing of multiple standards at one time increasing testing productivity. Step by step facilitation of testing procedures enhances testing consistency while reducing training requirements.

PCA-Lab(automatically performs all calculation of test results. Results can be viewed and stored in percent error, percent registration or measured value format. Even devices with multiple current or voltage taps require no manual calculation. Tap values are entered and stored in device parameter files. Effective pulse factors are automatically calculated and assigned to the appropriate voltage/current test points on the test sheet. Manually tapped devices can serve as references or devices under test allowing unlimited compatibility with various types of reference standards.

PCA-Lab stores and maintains all test results performed on a device. Historic test results can easily be found, viewed and printed with PCA-Lab. Results are stored by serial number of the device being tested. Reference Serial Number, Last Calibration Date, and Tester Identification are also stored which each test. All results are time and date stamped for optimum tracking of test history on a device. Data can be saved in either ASCII data format or in Open Database Compliant DBase format. This allows for maximum flexibility in working with test results and further protects essential historic data.

PCA-Lab can be used for testing other electric measurement devices as well as energy reference standards. Detailed laboratory analysis of wathour billing meters is possible with PCA-Lab. Load curve analysis, lagging/leading power factor analysis, and repeatability testing are all easily achieved with PCA-Lab and an appropriate energy source. Testing of Voltage, Current, Watt, and Phase Angle meters is also supported for a complete standards testing package.

PCA-Lab is flexible enough to support the use of virtually any brand of reference standard or digital comparator. However, measurement accuracy and testing efficiency are maximized by using Radian Standards and Test Accessories. Optimum performance is achieved by combining PCA-Lab with the Radian RM-110 Automated Comparator interfaced to a computer using an RM-PCA Computer Interface Adapter. This combination transforms any existing voltage and current source into an automated standards testing system with powerful data collection, calculation and management capabilities. Radian also offers a complete line of other test accessories for standard and billing meter testing requirements.

PCA-Lab(contains an extensive on-line help facility covering every aspect of the program's operation. It is available in either 32-bit Windows 95/NT format or in 16-bit Windows 3.x format.