

Series 2400 SourceMeter® Instruments Training Class



Unleash the capabilities of your **POWERFUL** SourceMeter Instrument.

Overview

This two-day course offers a detailed review of the primary functions of Keithley's Series 2400 instruments and how to control them remotely. Through a combination of lectures, hands-on exercises, and quizzes, students will learn how to use the source and measure capabilities of these instruments to address a variety of test requirements, with practical examples employing a variety of device types. Topics also include measurement optimization and troubleshooting.

Who should attend

Engineers, test technicians, and researchers who use Series 2400 instruments and want to write programs to control them remotely.

Prerequisite

Experience in using bench-top instrumentation.

What you'll learn

After attending this course, students should be able to:

- Describe the principles of SourceMeter instrument operation.
- Understand key performance specifications.
- Select the most appropriate operating mode for a specific application.
 - Source and measure, source only, measure only.
 - Fixed level, staircase and custom sweeps, pulse.
- Configure source and measure settings and make measurements.
 - Front panel operation.
 - Remote control using SCPI commands. Focus is on the use of SCPI commands to program the instrument, rather than on the programming environment (e.g., Visual Basic, LabVIEW, C/C++, etc.)
- Determine the optimal speed vs. noise tradeoffs for an application.
- Identify and resolve common measurement problems.

Course benefits

- Increased productivity. Learn how set up SourceMeter instruments properly for sourcing and measuring various signal types.
- Reduced test time. Discover alternative operating modes that can boost test throughput.
- Faster project completion. Find out how to employ software tools to configure complex test applications quickly.
- Fewer measurement errors. Explore measurement techniques that enhance test accuracy.
- Higher test throughput. Weigh the speed vs. noise tradeoffs associated with various measurements.
- Fewer costly delays. Learn how to spot and resolve common measurement problems before they waste time and money.
- Advanced study materials. Receive a comprehensive workbook and a certificate of completion.

Course outline

- Introduction to the instruments
- Principles of operation and specifications
- Front panel operation
- Remote programming
- Testing with a SourceMeter instrument
- Making measurements via remote control
- Optimizing measurements by weighing accuracy vs. speed tradeoffs
- Understanding and eliminating measurement errors
- Measurement troubleshooting
- Open forum on user test applications and problems

When and where

Visit www.keithley.com/events/training for a list of upcoming class dates and locations.

Ordering information

Call 1-888-KEITHLEY or visit our website at www.keithley.com/events/training to register for a class.

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