ExceLINX-1A and TestPoint Runtime Start-up Software

System Requirements:

- Pentium®-class PC with Windows® 95 (OSR2) operating system or newer version
- Excel 97 (SR1) or newer version
- Model 2700 (Firmware B03 or later) or Model 2750 (Firmware A02 or later) and one or more supported plug-in switch/control modules

Plug-in Switch/Control Modules Supported:

- Model 7700 20-Channel Differential Multiplexer with Automatic Cold Junction Compensation
- Model 7702 40-Channel Differential Multiplexer
- Model 7708 40-Channel Differential Multiplexer with Automatic Cold Junction Compensation

Communications Interface Support:

- Keithley GPIB cards (ISA, PCI, PCMCIA)
- CEC GPIB cards (ISA, PCI)
- National Instruments GPIB cards (ISA, PCI, PCMCIA)
- INES GPIB cards (PCMCIA)
- RS-232

ExceLINX-1A Functions supported:
DC volts and current, AC volts and current, resistance (2-wire and 4-wire), frequency, temperature (thermocouple, thermistor, RTD), continuity, period and totalizer, math, filtering, limits, scaling, triggering, remote datalogging, data recovery, limits can control chassis digital outputs, VBA interface.
Not supported: digital I/O on a module, analog output, on/off control of switches, custom control sequences.

TestPoint Runtime Start-up software supports:
DC volts and current, AC volts and current, resistance (2-wire and 4-wire), frequency, temperature (thermocouple), period, and triggering.
Not supported: digital I/O, analog output, on/off control of switches, custom control sequences, math, filtering, limits, scaling.

Choose an economical data acquisition bundle

Three new system bundles make it easy to get applications off to a quick, economical start:

- The **2700/7700** value pack provides a basic 20-channel system.
- The **2700-DAQ-40** includes the Models 2700 and 7708, plus ExceLINX-1A for a 40-channel system.
- The **2700-DAQ-80** provides one Model 2700, two Model 7708 modules, and ExceLINX-1A for an 80-channel system.

Register for a free online interactive demo

Keithley's engineering experts offer free online demonstrations of the Model 2700 hardware and software. All it takes to participate is an Internet connection and a telephone to watch the demo and communicate with the instructor. Call us or contact us via our website to register for a session.

KEITHLEY

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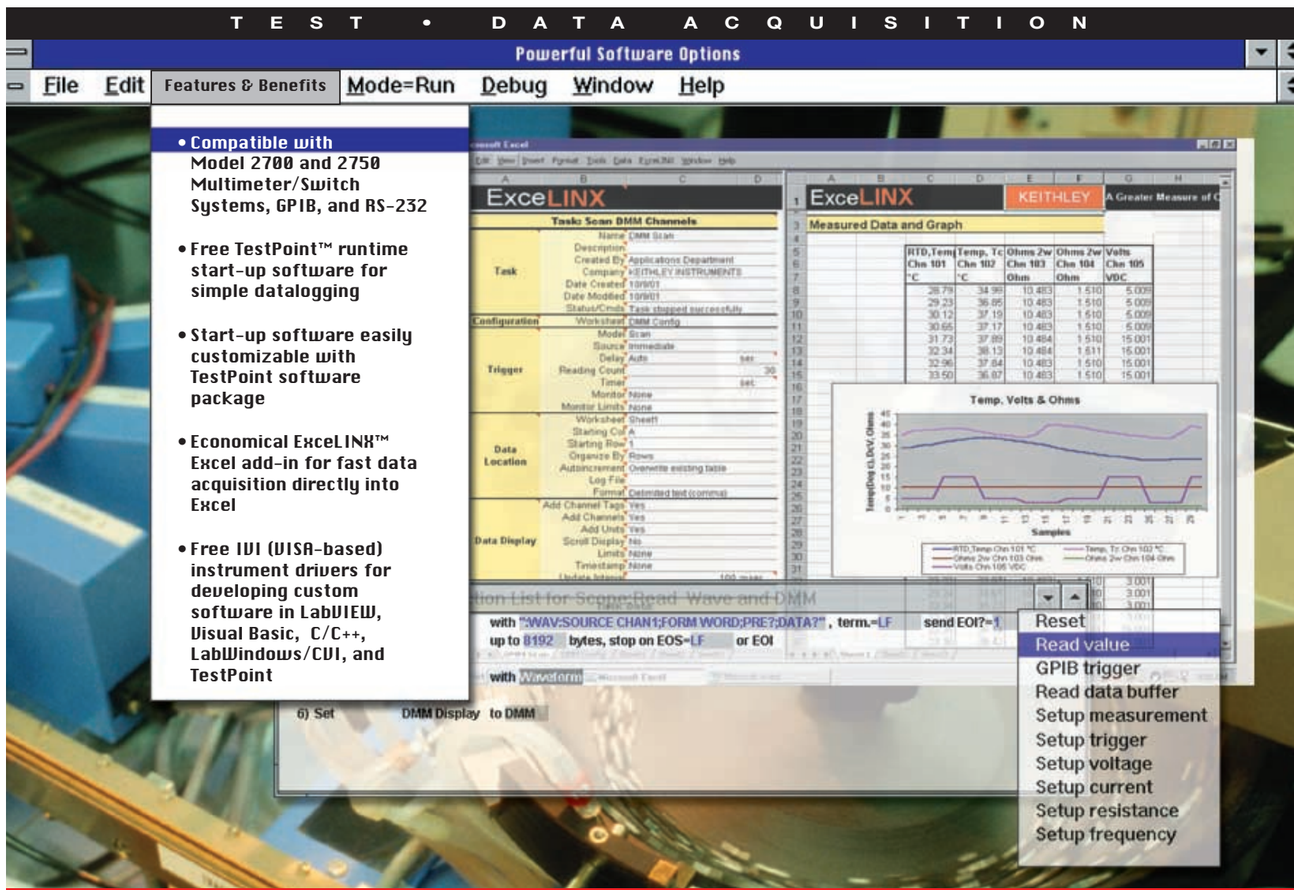
KEITHLEY

Powerful Software Options for Integra Series
Model 2700/2750 Multimeter/Switch Systems

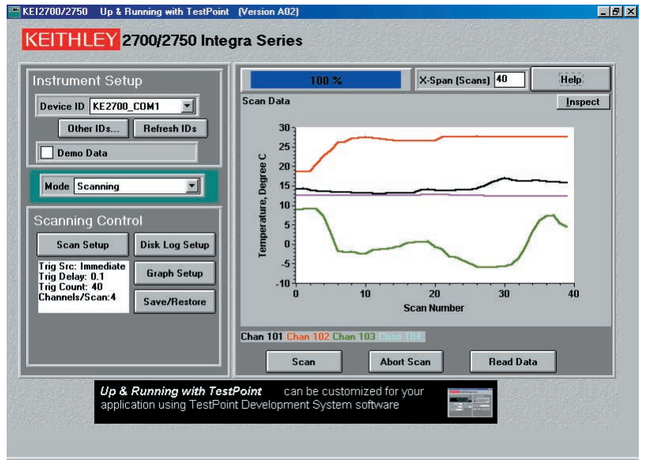
T E S T • D A T A A C Q U I S I T I O N



www.keithley.com

How much power and flexibility does the application demand?

Whether the task calls for a simple start-up package to acquire several channels of data or the tools to create a fully custom acquisition and analysis solution, Keithley has the software needed to get the most performance from a Model 2700 or 2750 Multimeter/Switch System. Our broad range of software solutions makes it easy to get R&D, quality assurance, and production applications "Up & Running" quickly and economically.



Customizable Start-up Software

Our free TestPoint runtime start-up software package provides basic datalogging capabilities, so a system can be up and running almost immediately. A few clicks of the mouse are all it takes to confirm that the system's hardware, wiring, communications, and software drivers are installed and operating correctly. Data from multiple channels from a single instrument can be saved to disk; up to eight channels of data can be graphed automatically and multiple configurations can be saved to disk.

If the application demands greater functionality, this free runtime can be modified with the TestPoint application development package.

For more information about software options and the Models 2700/2750, visit our website at www.keithley.com

TestPoint™ Application Development Package

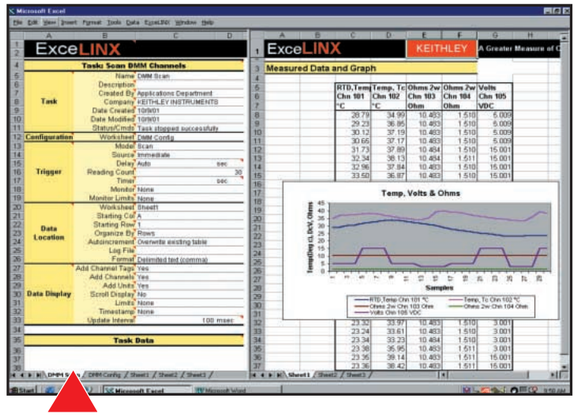
If Keithley's free start-up software doesn't provide a feature needed to support a specific application, the economical TestPoint application development package makes it simple to create a semi-custom solution by modifying the runtime application. By using the start-up runtime as a foundation, TestPoint offers the flexibility needed to build basic systems quickly, without in-depth programming. TestPoint uses object-oriented, drag-and-drop technology to bring both power and simplicity to data acquisition and test and measurement applications. TestWizards and pre-written application templates in a choice of graphical styles make it simple to create a complete application with a few mouse clicks. Additional objects can be modified and added to create custom enhancements.

Three optional toolkits make it easy to expand applications:

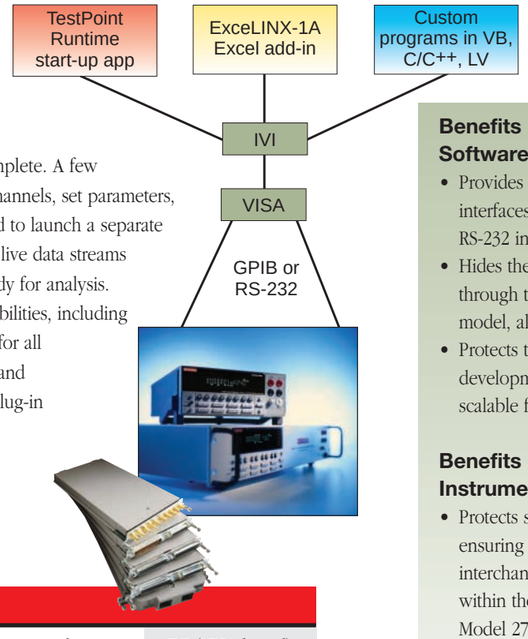
- Internet toolkit provides Web-based remote measurements and control.
- Database toolkit provides access to popular database packages like Access, SQL, Oracle, and others.
- Statistical process control (SPC) toolkit adds charts, statistics, and analysis capabilities.

ExceLINX-1A™ for the Model 2700 and 2750

Our new ExceLINX-1A software is an economical, easy-to-use, add-in utility for Microsoft® Excel and Keithley Model 2700 and Model 2750 Multimeter/Switch Systems. No programming is required; enter values quickly through pop-up menus and eliminate time-consuming coding. Acquire data into a spreadsheet on the fly during a scan or transmit data into a spreadsheet after a scan is complete. A few mouse clicks are all it takes to configure channels, set parameters, triggers, and scan lists, etc. There's no need to launch a separate datalogging or data-crunching application; live data streams automatically into an Excel workbook, ready for analysis. ExceLINX-1A offers basic datalogging capabilities, including temperature, voltage, current, and resistance (for all supported channels) over GPIB or RS-232 and supports three different Series 2700/2750 plug-in switch/control modules.



Within minutes of installing ExceLINX-1A on a PC, users can acquire data directly from the Model 2700/2750 instruments, then employ Excel's graphics, charting, and analysis capabilities to turn that data into useful information.



IVI Instrument Drivers (VISA-Based)

For experienced programmers who prefer to build fully custom systems from scratch, Keithley provides a Series 2700/2750 instrument driver for use with Application Development Environments such as LabVIEW™, LabWindows™/CVI, Visual Basic, C/C++, and TestPoint. This IVI-style driver (VISA-based) supports all of the functionality of the Model 2700 and 2750. Numerous examples and an on-line help utility are provided to assist programmers in getting their applications "Up & Running" quickly. The instrument driver supports all modules.

Benefits of VISA (Virtual Instrument Software Architecture)

- Provides software compatibility with GPIB interfaces from a variety of vendors, as well as RS-232 interfaces.
- Hides the complexity of the communication bus through the use of a common programming model, allowing greater ease of use.
- Protects the investment made in software development by making programs easily scalable for use in later applications.

Benefits of IVI (Interchangeable Virtual Instruments)

- Protects software development investments by ensuring software compatibility and interchangeability from instrument to instrument within the same family (such as Model 2700 and Model 2750).
- Supplies a common programming interface based on the ANSI-C standard.
- Hides the complexity of instrument dependent commands (SCPI).
- Provides online, built-in, Acontext-sensitive help.

2700 & 2750 Software Selection Guide

Applications	Typical Uses	TestPoint Runtime Start-up Software	ExceLINX-1A Excel add-in for 2700/2750	TestPoint Application Development Package	IVI (VISA-based) Instrument Drivers
Basic Datalogging	Troubleshooting/ Prototyping/R&D	●			
Datalogging directly into Excel	R&D, QA		●		
Semi-Custom Datalogging or Control System	Production Testing		●	●	
Custom programming in TestPoint, LabVIEW, LabWindows/CVI, VB, or C/C++	Production Testing				●