



### 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.

Specifications are subject to change without notice.

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TestPoint is a trademark of Capital Equipment Corporation.



#### Keithley Instruments, Inc.

28775 Aurora Road • Cleveland, Ohio 44139 • 440-248-0400 • Fax: 440-248-6168  
1-888-KEITHLEY (534-8453) • [www.keithley.com](http://www.keithley.com)

- Sales Offices:
- BELGIUM:** Bergensesteenweg 709 • B-1600 Sint-Pieters-Leeuw • 02-363 00 40 • Fax: 02/363 00 64
  - CHINA:** Yuan Chen Xin Building, Room 705 • 12 Yumin Road, Dewai, Madian • Beijing 100029 • 8610-6202-2886 • Fax: 8610-6202-2892
  - FINLAND:** Tietäjäntie 2 • 02130 Espoo • Phone: 09-54 75 08 10 • Fax: 09-25 10 51 00
  - FRANCE:** 3, allée des Garays • 91127 Palaiseau Cédex • 01-64 53 20 20 • Fax: 01-60 11 77 26
  - GERMANY:** Landsberger Strasse 65 • 82110 Germering • 089/84 93 07-40 • Fax: 089/84 93 07-34
  - GREAT BRITAIN:** Unit 2 Commerce Park, Brunel Road • Theale • Berkshire RG7 4AB • 0118 929 7500 • Fax: 0118 929 7519
  - INDIA:** Flat 2B, WILLOCRISSA • 14, Rest House Crescent • Bangalore 560 001 • 91-80-509-1320/21 • Fax: 91-80-509-1322
  - ITALY:** Viale San Gimignano, 38 • 20146 Milano • 02-48 39 16 01 • Fax: 02-48 30 22 74
  - KOREA:** 2FL., URI Building • 2-14 Yangjae-Dong • Seocho-Gu, Seoul 137-130 • 82-2-574-7778 • Fax: 82-2-574-7838
  - NETHERLANDS:** Postbus 559 • 4200 AN Gorinchem • 0183-635333 • Fax: 0183-630821
  - SWEDEN:** c/o Regus Business Centre • Frosundaviks Allé 15, 4tr • 169 70 Solna • 08-509 04 679 • Fax: 08-655 26 10
  - SWITZERLAND:** Kriesbachstrasse 4 • 8600 Dübendorf • 01-821 94 44 • Fax: 01-820 30 81
  - TAIWAN:** IFL., 85 Po Ai Street • Hsinchu, Taiwan, R.O.C. • 886-3-572-9077 • Fax: 886-3-572-9031

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

**TEST • DATA ACQUISITION**

Powerful Software Options

File Edit Features & Benefits Mode=Run Debug Window Help

- Compatible with Model 2700 and 2750 Multimeter/Switch Systems, GPIB, and RS-232
- Free TestPoint™ runtime start-up software for simple datalogging
- Start-up software easily customizable with TestPoint software package
- Economical ExceLINX™ Excel add-in for fast data acquisition directly into Excel
- Free IUI (VISA-based) instrument drivers for developing custom software in LabVIEW, Visual Basic, C/C++, LabWindows/CUI, and TestPoint

RTD, Temp	Temp. Tc	Ohms 2w	Ohms 2w	Volts
Chn 101	Chn 102	Chn 103	Chn 104	Chn 105
°C	°C	Ohms	Ohms	VDC
28.79	34.95	10.483	1.510	5.000
29.23	36.05	10.483	1.510	5.000
30.12	37.19	10.483	1.510	5.000
30.65	37.17	10.483	1.510	5.000
31.73	37.89	10.484	1.510	15.001
32.34	38.15	10.484	1.511	15.001
32.96	37.84	10.483	1.510	15.001
33.50	36.07	10.483	1.510	15.001

Temp. Volts & Ohms

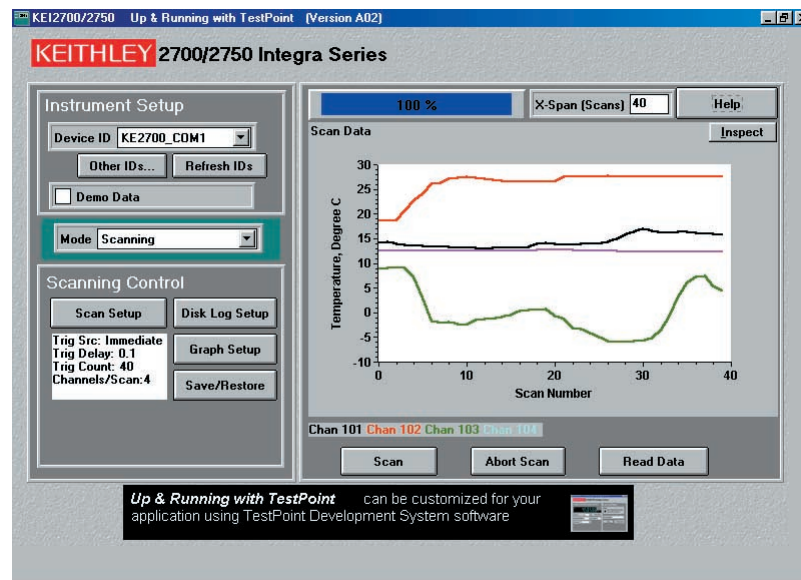
6) Set DMM Display to DMM

Reset  
Read value  
GPIB trigger  
Read data buffer  
Setup measurement  
Setup trigger  
Setup voltage  
Setup current  
Setup resistance  
Setup frequency



# 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](http://www.keithley.com)

## TestPoint™ Application Development Package

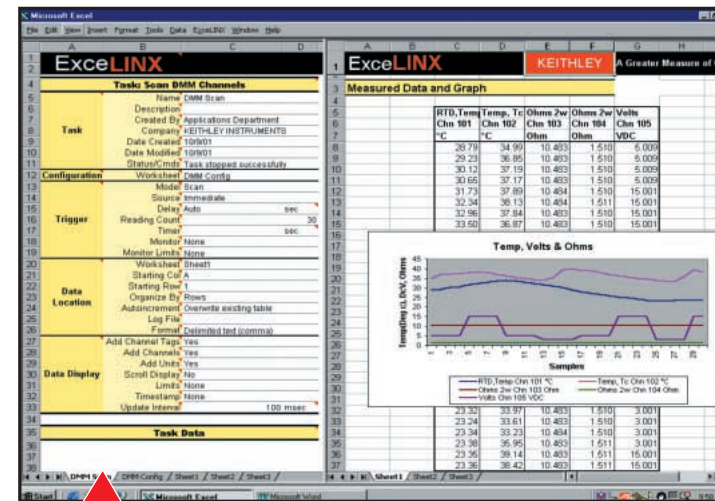
If Keithley's free start-up software doesn't provide a feature needed to support a specific application, the economical TestPoint application development package makes it simple to create a semi-custom solution by modifying the runtime application. By using the start-up runtime as a foundation, TestPoint 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.

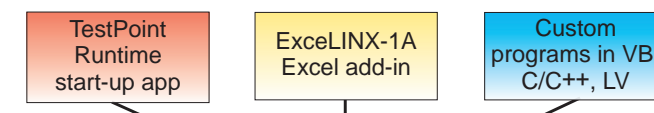
## ExcelINX-1A™ for the Model 2700 and 2750

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



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.

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.



## 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				●