
**** Read Me First ****

Version 1.4.5.0
August 2012

Introducing the Keithley IVI-COM Driver for the 26XXA/B Source Measure
Unit

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The instrument driver provides access to the functionality of the
Keithley 26XXA/B through a COM server which also complies
with the IVI specifications. This driver works in any development
environment which
supports COM programming including Microsoft® Visual Basic, Microsoft
Visual C++, Microsoft .NET, Agilent VEE Pro, National Instruments
LabVIEW, and others.

Supported Instruments

- 2601A
- 2602A
- 2611A
- 2612A
- 2635A
- 2636A
- 2651A
- 2657A
- 2601B
- 2602B
- 2611B
- 2612B
- 2635B
- 2636B
- 2604B
- 2614B
- 2634B

Installation

System Requirements: The driver installation will check for the
following requirements. If not found, the installer will either
abort, warn, or install the required component as appropriate.

Supported Operating Systems:

- Windows 2000
- Windows XP
- Windows Vista
- Windows 7

Shared Components

Before this driver can be installed, your computer must already have the IVI Shared Components installed.

Minimal IVI Version: 2.0.0

The IVI Shared Components installer is available from:
http://ivifoundation.org/shared_components/Default.aspx

VISA-COM

Any compliant implementation is acceptable. Typically, VISA-COM is installed with VISA and other I/O library modules.

Additional Setup

.NET Framework

The .NET Framework itself is not required by this driver. If you plan to use the driver with .NET, the minimal .NET framework version is 2.0.

The .NET Framework requires an interop assembly for a COM server. A Primary Interop Assembly, along with an XML file for IntelliSense is installed with the driver. The driver's PIA, along with IVI PIAs are installed, by default, in:

<drive>:\Program Files\IVI Foundation\IVI\Bin\Primary Interop Assemblies

The PIA is also installed into the Global Assembly Cache (GAC) if you have the .NET framework installed.

Start Menu Shortcuts

A shortcut to the driver help file is added to the Start Menu, Programs, Keithley Instruments, Ke26xxA group. It contains "Getting Started" information on using the driver in a variety of programming environments as well as documentation on IVI and instrument specific methods and properties.

You will also see shortcuts to the Readme file and any programming examples for this driver.

Help File

The help file (Ke26XXA.chm) is located in the directory:
<drive>:\Program Files\IVI Foundation\IVI\Drivers\Ke26XXA

Examples

The examples can be found by clicking on the shortcut in the Start menu. The examples for C#, VB.NET, C++ and VB6 show how to use the IVI-COM driver.

The minimum ADE/IDE versions to run the examples are: Visual Studio 2010 and VB6.

Revision History

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Version      Date          Notes  
-----  
0.1.0.0     Jan 08, 2008  Internal release  
0.2.0.0     Mar 13, 2008  Internal release  
1.0.0.0     May 07, 2008  Initial public release  
1.1.0.0     Jul 01, 2009  Special build - not released  
1.2.2.0     Apr 18, 2011  Added Model 2651A  
1.3.0.0     Dec 01, 2011  Added Model 2657A  
              Added HighC Mode  
1.4.0.0     Jun 15, 2012  Added Series 2600B Models  
1.4.1.0     Jun 21, 2012  Internal release  
1.4.2.0     Jul 04, 2012  Internal release  
1.4.3.0     Aug 14, 2012  Internal release  
1.4.4.0     Aug 14, 2012  Internal release  
1.4.5.0     Aug 15, 2012  Public release
```

Open Issues

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1. When the instrument is put into High-C Mode using the method
 Driver->Source->HighCMode then the Current Measurement auto-range
 switches
 to AUTORANGE_FOLLOW_LIMIT, which has a value of 2.
 The returned data type of Driver->Measurement->Current-
 AutoRangeEnabled
 is a boolean. If you try to query this attribute and it is set to 2
 then
 the driver will error.
2. The IntelliSense feature in Microsoft Visual Studio 2010 does not
 work
 with C++ examples. This is due to Microsoft Bug ID: 704885. However,
 there
 is no problems in compiling and running the C++ examples.
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#### Support

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To report bugs or provide feedback on this driver go to the Keithley
forum:
forum.Keithley.com
```

#### IVI Shared Component Revisions

```

1.3.2.4 IviConfigServer.dll
1.0.7.0 IviConfigServerCAPI.dll
1.1.0.0 IviCShared.dll
1.0.237.0 IviCSharedSupport.dll
2.0.0.0 IviDCPwrTypeLib.dll
3.0.0.0 IviDmmTypeLib.dll
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1.0.0.0 IviDriverTypeLib.dll
1.1.1.0 IviEventServer.exe
1.1.1.0 IviEventServerDLL.dll
1.1.1.0 IviEventServerDLLps.dll
1.1.1.0 IviEventServerps.dll
3.0.0.0 IviFgenTypeLib.dll
1.0.236.0 IviFloat.dll
1.0.0.0 IviPwrMeterTypeLib.dll
1.1.0.0 IviRfSigGenTypeLib.dll
3.0.0.0 IviScopeTypeLib.dll
1.0.1.2 IviSessionFactory.dll
1.2.1.0 IviSharedComponentVersion.dll
1.0.0.0 IviSpecAnTypeLib.dll
3.0.0.0 IviSwtchTypeLib.dll

```

IVI Compliance

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(The following information is required by IVI 3.1 section 5.21.)

IVI-COM IviCustom Specific Instrument Driver

IVI Instrument Class: None

IviLxiSync: IVI-3.15\_v1.0

|                               |     |
|-------------------------------|-----|
| IviLxiSyncBase                | yes |
| IviLxiSyncCustomArmSource     | no  |
| IviLxiSyncCustomTriggerSource | no  |
| IviLxiSyncTriggerAlarm        | no  |
| IviLxiSyncArmAlarm            | no  |
| IviLxiSyncCustomTriggerAlarm  | no  |
| IviLxiSyncCustomArmAlarm      | no  |
| IviLxiSyncEvent               | no  |
| IviLxiSyncCustomEvent         | no  |
| IviLxiSyncEventLog            | no  |
| IviLxiSyncSyncTime            | no  |

Optional Features: This driver does not support Interchangeability Checking, State Caching, or Coercion Recording.

Driver Identification:

(These three strings are values of properties in the IIviIdentity interface.)

Vendor: Keithley Instruments.

Description: 26XXA/B Source Measure Unit.

Revision: 1.4

Component Identifier: Keithley.Keithley26XXA

(The component identifier can be used to create an instance of the COM server.)

Hardware: This driver supports instruments manufactured by Keithley.

The supported model numbers are:

2601A

2602A

2611A  
2612A  
2635A  
2636A  
2651A  
2657A  
2601B  
2602B  
2611B  
2612B  
2635B  
2636B  
2604B  
2614B  
2634B

Software: See the section on installation in this document for information on what other software is required by this driver.