

# **Agilent U1401A Data Logger**

## **Installation Guide**



**Agilent Technologies**

## Notices

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# Introduction

The Agilent U1401A Handheld Multi-Function Calibrator/Meter has a bidirectional (full duplex) communication capability that enables data transfer from the multimeter to a PC. The required accessory for this is an optional IR-USB cable and the bundled application software in the accompanying CD-ROM.

The U1401A Data Logger is an application software that is targeted to extend the capabilities of the U1401A Handheld Multi-Function Calibrator/Meter. The software provides a simple graphical user interface (GUI) that allows you to perform basic controls and measurements through the PC. The software also adds a long-term data recording function to the instrument.



# 1 System Requirements

## Hardware requirements

### Instrument requirement

- ✓ U1401A Handheld Multi-Function Calibrator/Meter
- ✓ Option U5481A IR-USB cable

### PC requirements

| PC requirements  | Specification (minimum)  |
|------------------|--|
| Processor        | 1.6 GHz Pentium® IV or higher recommended  |
| Operating System | Windows® XP Professional or Home Edition, (Service Pack 1 or later), Windows® 2000 Professional (Service Pack 4 or later), or Windows Vista® |
| Video            | 800×600 screen resolution (1280×1024 recommended)  |
| Browser          | Microsoft® Internet Explorer 5.01 or higher (6.0 or higher recommended)  |
| Available RAM    | 512 MB or higher (1.0 GB or higher recommended)  |
| Hard Disk Space  | 1.0 GB free disk space at runtime  |

## Software requirements

| Software requirements     | Version (minimum)                                 |
|---------------------------|---|
| Microsoft® .NET Framework | Version 1.1 <sup>[1]</sup> and 2.0 <sup>[1]</sup> |
| PL-2303 USB-Serial Driver | Version 2.0.0.26 <sup>[1]</sup> or higher         |

<sup>[1]</sup> Bundled with Data Logger installer.

## 2 Installing the Data Logger

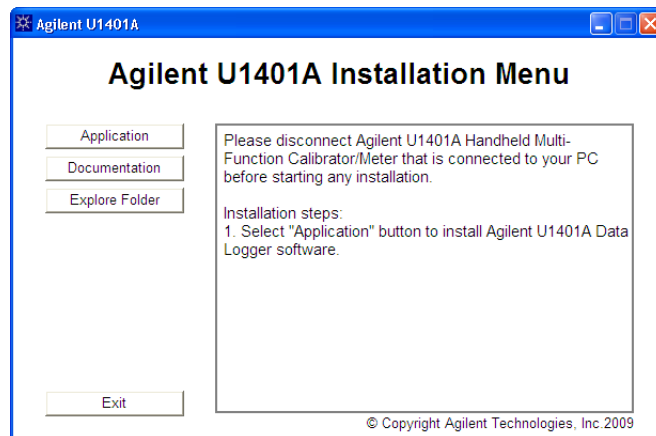
There are two options you may choose from to install the Data Logger. You may choose to install from the provided U1401A Data Logger CD or obtain the installation software from Agilent's web site to install the application software.

### NOTE

Prior to installing the Data Logger, ensure that your PC meets the minimum system requirements for installation and operation processes.

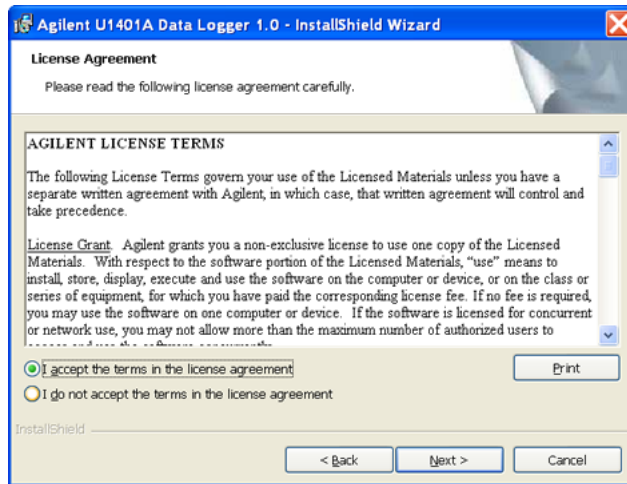
### Installing the application software from CD

- 1 Disconnect any instrument that is connected to your PC and close all other applications on your PC.
- 2 Insert the U1401A Data Logger CD into your CD-ROM drive.
- 3 If the installation menu does not appear after a few seconds, go to **Start > Run** and type `<drive>:\Autorun.exe` where `<drive>` is your CD-ROM drive location.

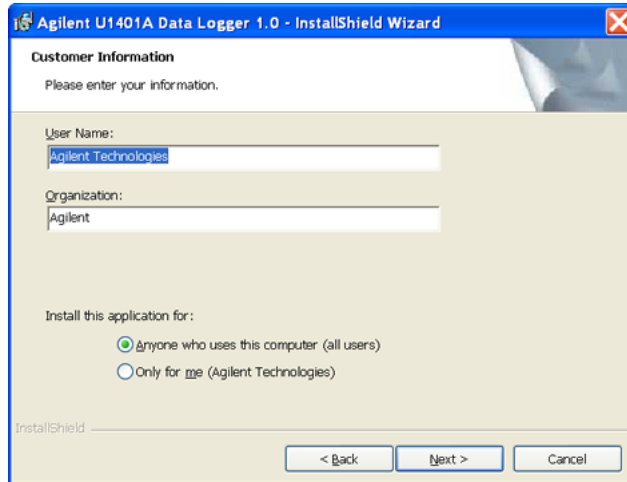


- 4 Click **Application** on the Data Logger Installation Menu to begin the installation.

- 5 If you do not have any of the prerequisites installed, the InstallShield Wizard software prerequisite will appear.
- 6 Click **OK** to begin the installation of the listed missing prerequisites.
- 7 Once the above installation has completed, installation of the Data Logger will proceed as normal.
- 8 The Agilent U1401A Data Logger - InstallShield Wizard dialog will appear. Click **Next** to begin.
- 9 Read the License Agreement and select **I accept the terms in the License Agreement** to proceed. You may click **Print** to print a hardcopy of the Agilent License Terms for your reference. Click **Next** to proceed.



**10** Fill in the Customer Information form accordingly, as shown below, and click **Next**.



Agilent U1401A Data Logger 1.0 - InstallShield Wizard

**Customer Information**

Please enter your information.

User Name:  
Agilent Technologies

Organization:  
Agilent

Install this application for:

Anyone who uses this computer (all users)

Only for me (Agilent Technologies)

InstallShield

< Back   Next >   Cancel

**11** Click **Next** to install to the specified folder or click **Change** to install to a different folder.

**12** Click **Install** to begin the installation of the Data Logger.

**13** Click **Finish** when the installation has completed.

**14** A shortcut to this software will be created on your desktop.



## NOTE

If you are installing a newer version of the Data Logger, the InstallShield Wizard will prompt you to override the installed older copy of the Data Logger. Click **Yes** to proceed with the installation.

## Downloading the application software from the Web

- 1 Go to <http://www.agilent.com/find/handheld-calibrator-meter>, and download the U1401A Data Logger application software.
- 2 Save the file to any location on your hard disk.
- 3 Disconnect any instrument that is connected to your PC and close all other applications on your PC.
- 4 Double-click the saved installation file to begin installation.
- 5 If you do not have any of the prerequisites installed, the InstallShield Wizard software prerequisite will appear.
- 6 Click **OK** to begin the installation of the listed missing prerequisites.
- 7 Once the above installation has completed, installation of the Data Logger will proceed as normal.
- 8 Follow the instructions on your screen to begin the installation.
- 9 Click **Finish** once the installation has completed.

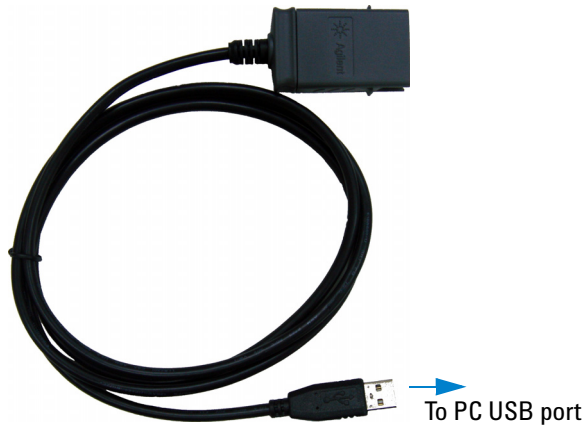
### 3 Equipment Setup and Connection

Connect the U1401A Handheld Multi-Function Calibrator/Meter to a computer for instrument control:

- 1 Set up the communication parameters of the U1401A and the personal computer you are using. The default values for baud rate, parity, data bit, and stop bit in the U1401A are 9600, n, 8, and 1 respectively.
- 2 Ensure that the USB driver and the IR transfer software has been installed on your computer.
- 3 Attach the optic side of the cable to the communication port on the meter. Ensure that the Agilent logo side is facing upwards.



- 4 Plug the USB cable terminal end into the USB port of your personal computer.

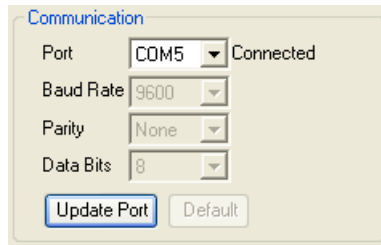


- 5 Use the U1401A Data Logger to retrieve the data that you need.



## System Setup

The Communication setup frame allows you to configure the communication port settings of your PC to match the U1401A Handheld Multi-Function Calibrator/Meter. Click **Default** to reset the parameters to the software default parameters.



The screenshot shows a dialog box titled "Communication" with a light beige background. It contains four rows of settings, each with a label and a dropdown menu. The first row is "Port" with a dropdown set to "COM5" and the text "Connected" to its right. The second row is "Baud Rate" with a dropdown set to "9600". The third row is "Parity" with a dropdown set to "None". The fourth row is "Data Bits" with a dropdown set to "8". At the bottom of the dialog, there are two buttons: "Update Port" (highlighted with a blue border) and "Default".

### NOTE

The Data Logger will automatically search all communication ports for your connected instrument. If you change communication ports, click **System Setup > Update Port** to prompt the Data Logger to search for the new communication port.

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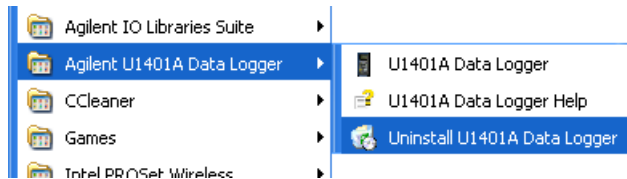
# Removing the Data Logger

The software can be removed either from the Windows Start menu or by the Windows Add/Remove Programs.

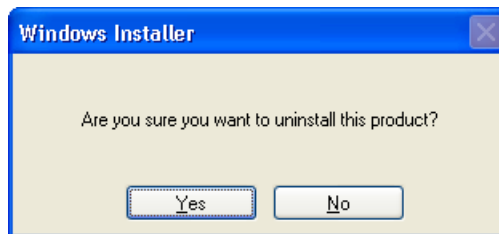
## Uninstalling from the Windows Start menu

To remove the software from the Windows Start menu, proceed as follows.

- 1 Select **Start** (Windows taskbar) > **All Programs** > **Agilent U1401A Data Logger** > **Uninstall U1401A Data Logger**.



- 2 The Windows Installer dialog box will appear and prompt you to confirm the complete removal of the application. Click **Yes** to proceed. To cancel the uninstallation, click **No**.



- 3 Follow the instructions on the screen to complete the removal process.

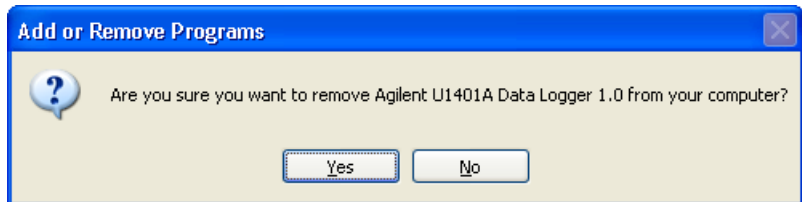
## Uninstalling from the Windows Add/Remove Programs

To remove the software by the Windows Add/Remove Programs, proceed as follows.

- 1 Select **Start** (Windows taskbar) > **Control Panel** to open the Control Panel window.
- 2 Double-click **Add or Remove Programs**. The Add or Remove Programs window will appear containing a list of currently installed programs.
- 3 Browse the list of currently installed programs to search for the **Agilent U1401A Data Logger 1.0** as shown below.



- 4 Click **Remove** to uninstall the selected application.
- 5 The Add or Remove Programs dialog box will appear and prompt you to confirm the complete removal of the application. Click **Yes** to proceed. To cancel the uninstallation, click **No**.



- 6 Follow the instructions on the screen to complete the removal process.



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Or visit Agilent World Wide Web at:

[www.agilent.com/find/assist](http://www.agilent.com/find/assist)

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