

INSTALLATION GUIDE

NI Instrument Simulator v. 2.0

This guide includes instructions for installing and configuring your NI Instrument Simulator v. 2.0 hardware and NI Instrument Simulator software on Windows Vista/XP/2000.

Refer to the *NI Instrument Simulator Help*, available after installing the NI Instrument Simulator software, for more information about troubleshooting problems, configuring the hardware and software, programming modes of operation, and more.

Check the Hardware Configuration

The NI Instrument Simulator v. 2.0 is shipped with a 100–240 VAC wall-mount or desktop power supply. If you plan to use a different power source to power your NI Instrument Simulator, verify that the voltage marked on that power supply matches the input voltage marked on your device.



Caution Do not operate your NI Instrument Simulator at any voltage other than that labelled on the unit. Doing so could damage the unit.

The NI Instrument Simulator v. 2.0 ships with the following factory default power-on settings:

- Multi-Instrument Simulator Mode
- GPIB settings:
 - Waveform Generator GPIB primary address 1
 - Waveform Generator GPIB secondary address disabled
 - Oscilloscope GPIB primary address 2
 - Oscilloscope GPIB secondary address disabled
 - Digital Multimeter GPIB primary address 3
 - Digital Multimeter GPIB secondary address disabled
- Serial settings:
 - 8 data bits/character
 - 1 stop bit/character
 - Parity disabled
 - Serial port configured to 9600 baud
 - Hardware flow control

In Multi-Instrument Simulator Mode, the NI Instrument Simulator v. 2.0 appears as three unique instruments on the GPIB bus. It also simulates an instrument through the serial port. To change any default setting, you must install the NI Instrument Simulator software.

Install the Software

To install the NI Instrument Simulator software, complete the following steps:

1. Log on as Administrator or as a user with administrator privileges.
2. Insert the NI Instrument Simulator software CD.
3. If the autorun application does not start, run `setup.exe` and follow the onscreen instructions to complete installation.
4. Reboot if prompted at the end of software installation.

Connect the Hardware

To connect the hardware, complete the following steps:

1. Connect either the GPIB or serial cable between the NI Instrument Simulator and computer.
2. Connect the DC power plug of the DC power supply to the NI Instrument Simulator hardware back panel and plug the power supply into an AC outlet.



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Configure the Hardware

To configure the hardware, complete the following steps:

1. Move the switch on the back panel to the CFG setting.
2. Power on the NI Instrument Simulator, using the power switch on the front of the product.

The **PWR** LED indicator should come on immediately. The **RDY** LED indicator blinks green after the hardware has passed its power-on self test, indicating it is ready for configuration.

3. Launch the NI Instrument Simulator Wizard from **Start»Programs»National Instruments»Instrument Simulator**.
4. Follow the onscreen instructions in the wizard.

For more information, refer to the *NI Instrument Simulator Help*, available by clicking the NI Instrument Simulator Wizard **Help** button.

Technical Support

The *NI Instrument Simulator Help* is available from the following locations:

- **Start»Programs»National Instruments»Instrument Simulator**
- The NI Instrument Simulator Wizard **Help** button

Refer to the *Technical Support and Professional Services* topic in the *NI Instrument Simulator Help* for information about obtaining technical support for this product.

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