



NATIONAL INSTRUMENTS Multifunction I/O Low-Cost DAQ USB Device User Guide

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Multifunction I/O Low-Cost DAQ USB Device



Product Information: USB-6001

The USB-6001 is a low-cost DAQ (Data Acquisition) USB device manufactured by NI (National Instruments). It comes with a Hi-Speed USB cable and two connector plugs. The device is compatible with NI-DAQmx driver software and NI LabVIEW application development software. It has various digital and analog input/output channels and can be used for various data acquisition applications.

Product Usage Instructions: USB-6001

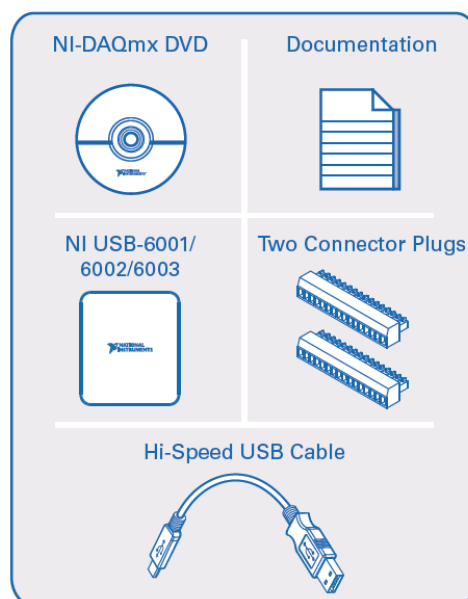
1. Before installing the device, read all product documentation to ensure compliance with safety, EMC, and environmental regulations.
2. Install the application development software (if applicable) and then install the NI-DAQmx driver software from ni.com/downloads.
3. Refer to the pinout diagram to connect the required input/output channels.
4. Refer to the product documentation available at ni.com/manuals a 6001 for further guidance on using the device.

Caution Before installing your device, read all product documentation to ensure compliance with safety, EMC, and environmental regulations.

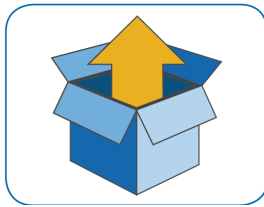
ni.com/low-cost-daq/getting-started

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Contents



Useful Links



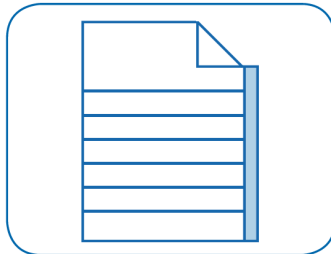
Getting Started

ni.com/low-cost-daq/getting-started



Examples

ni.com/info a daqmxexp



NI USB-6001/6002/6003 Documentation ni.com/manuals a 6001



Software

ni.com/downloads



Demonstrations

ni.com/daq/videos



Services and Support

ni.com/services

1. Install application development software (if applicable). Then install NI-DAQmx driver software.

1



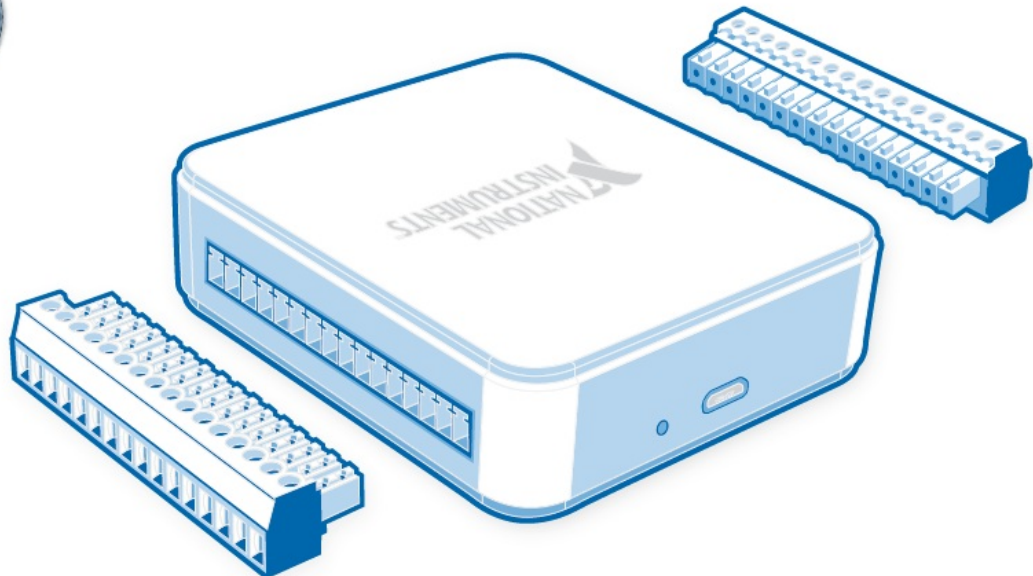
NI LabVIEW



NI-DAQmx

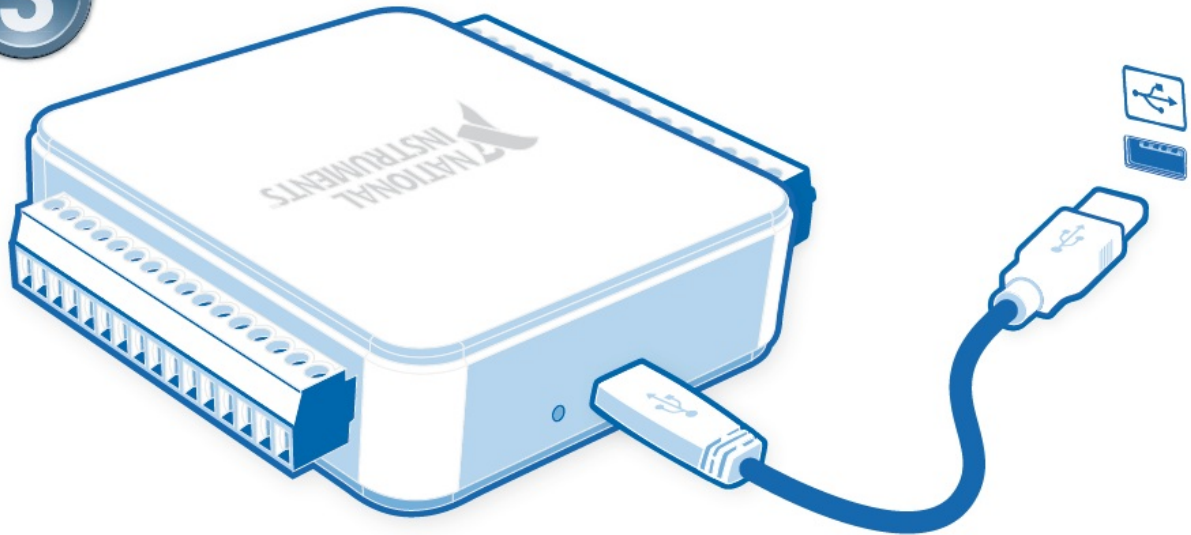
2. Attach the screw terminal connector plugs to the device.

2



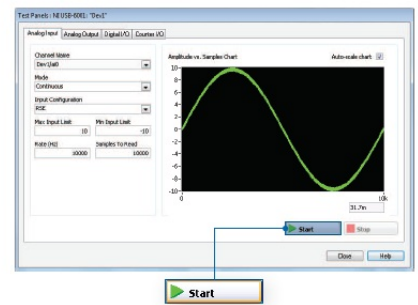
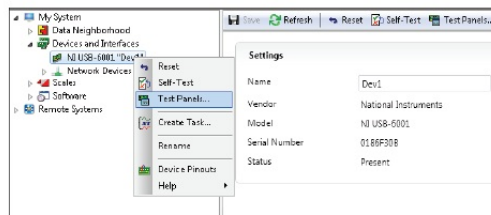
3. Connect the device to a USB port on your computer. Then connect shielded sensors and signals as described in the user guide.

3

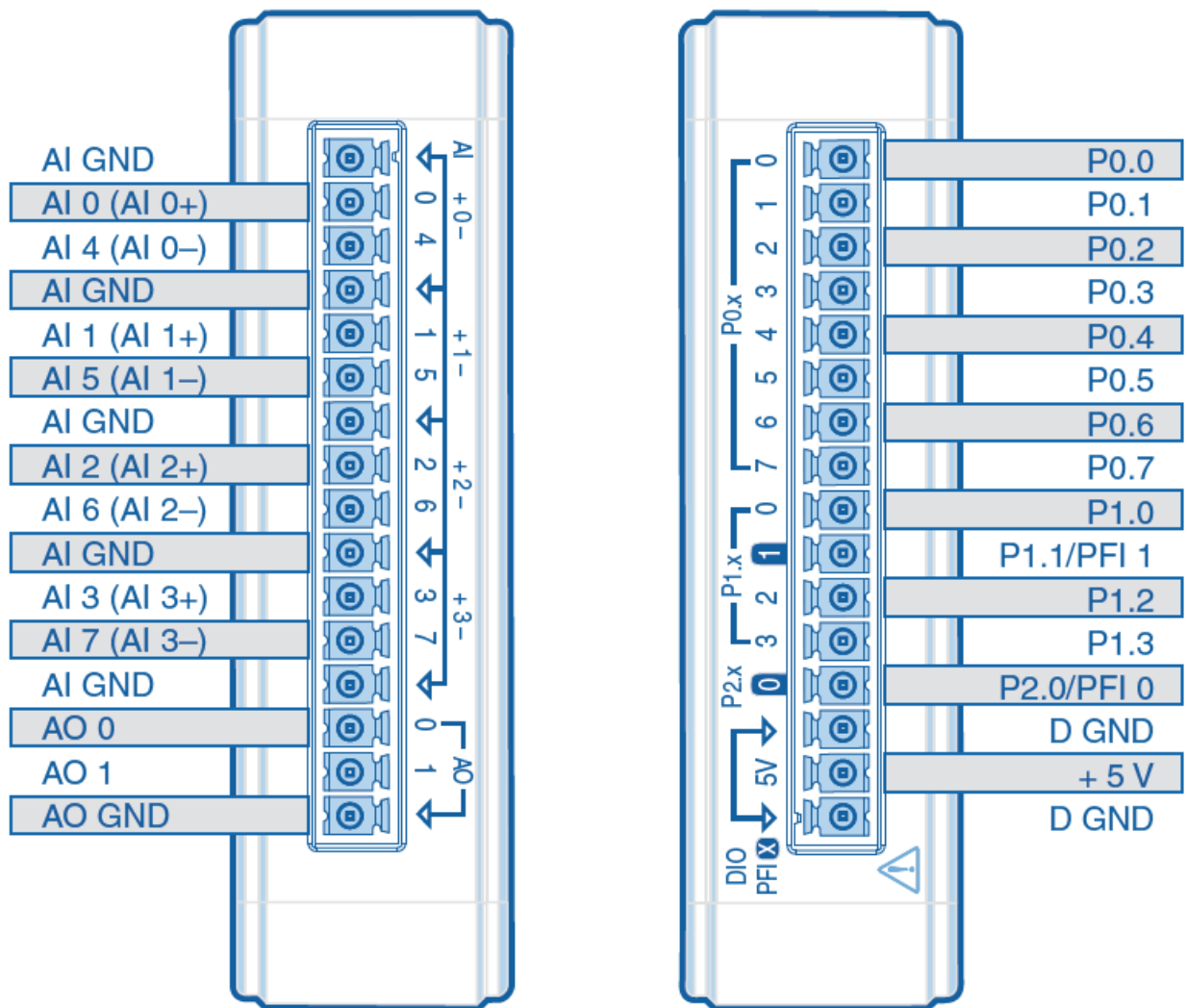


- Take your first measurement in NI Measurement & Automation Explorer (NI MAX). Right-click the device and select Test Panels. After selecting measurement parameters, click Start to verify measurement functionality.

4



Pinout



Documents / Resources



NATIONAL INSTRUMENTS Multifunction I/O Low-Cost DAQ USB Device [pdf] User Guide
 USB-6001, USB-6002, USB-6003, Multifunction I O Low-Cost DAQ USB Device, Multifunction I
 O Device, Low-Cost DAQ USB Device, DAQ USB Device, USB Device

References

- [NI Data Acquisition \(DAQ\) Systems, Devices & Software - NI](#)
- [Software and Driver Downloads - NI](#)
- [Using Info Codes - NI](#)
- [Trade Compliance - NI](#)
- [What Are Multifunction I/O Devices? - NI](#)
- [Product Documentation - NI](#)
- [National Instruments Patents - NI](#)
- [NI Services - NI](#)
- [NI Trademarks and Logo Guidelines - NI](#)
- [USB-6001 National Instruments Multifunction I/O Device | Apex Waves](#)