

Data Acquisition in Labview with NI-DAQ

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Motivations

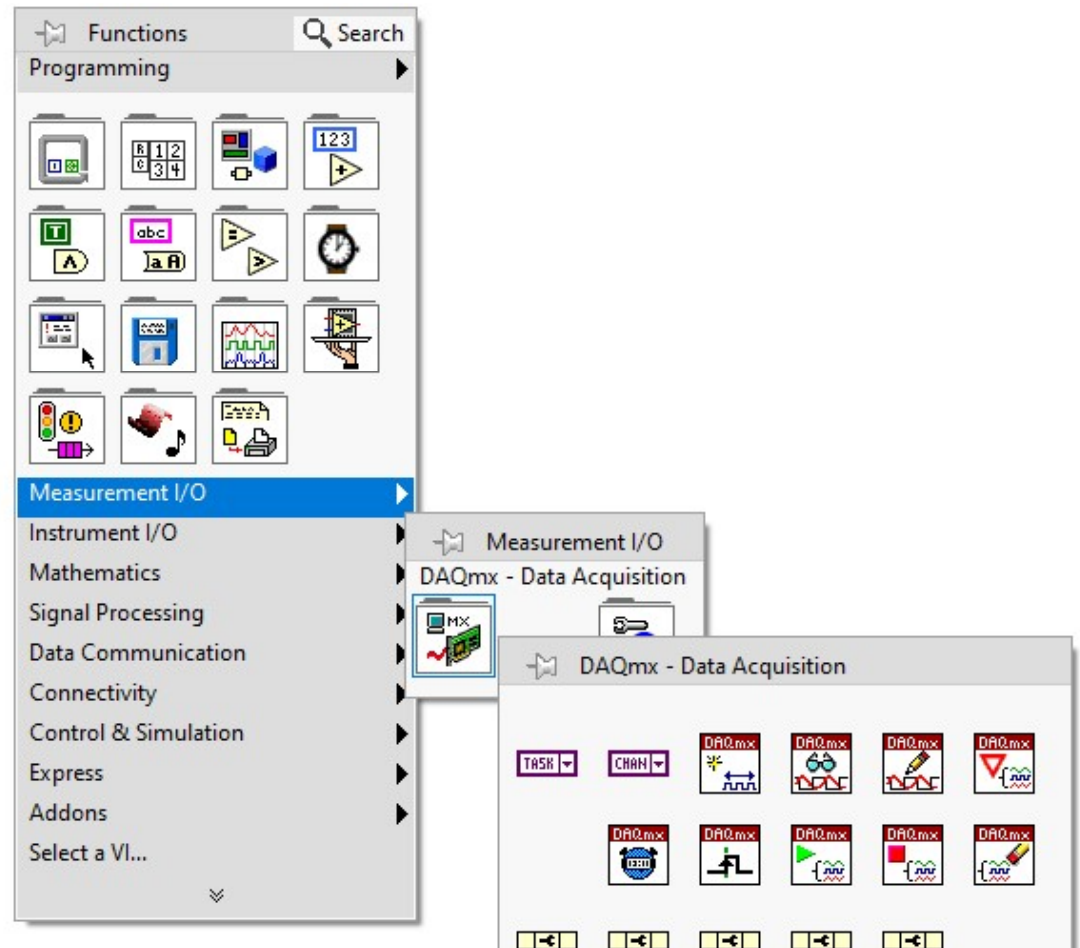
- Data Acquisition
- Use Labview built in Signal Processing Tool to process the acquired signal
-

What do we Need ?

- Software
 - Install Labview
 - Install NI-DAQmx
- Hardware
 - NI DAQ (**NI usb DAQ 6009**)

NI-DAQmx Toolbox

- Labview- function
- Measurement I/O
- DAQmx Data Acqui.



Hardware : NI USB 6009

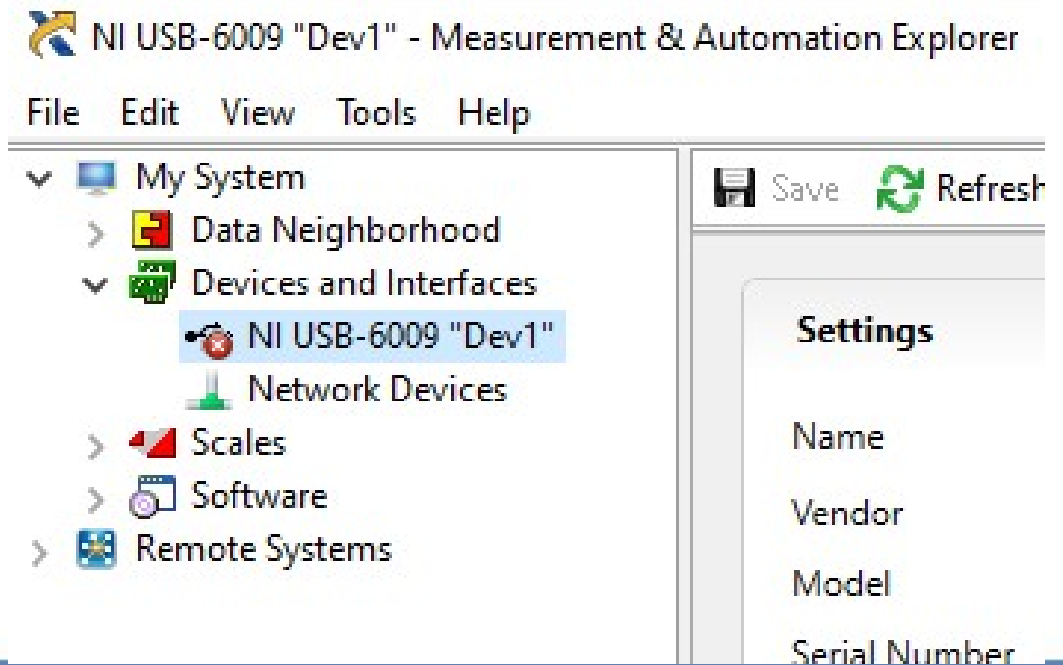
- Low-Cost USB Data Acquisition
 - 8 Analog Input, 2 Analog Output
 - 12 Digital Lines
 - 1 Counter
 - 48 kS/s at 14-bit resolution



What is MAX?

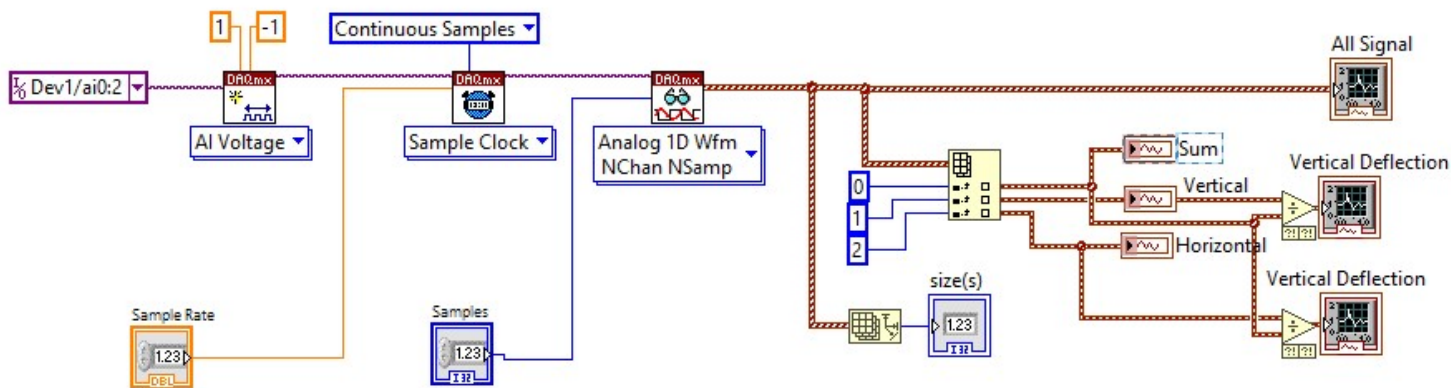
- MAX stands for Measurement & Automation Explorer.
- MAX configures and organizes all your National Instruments DAQ, PCI/PXI instruments, GPIB, IMAQ, IVI, Motion, VISA, and VXI devices.
- Used for configuring and testing devices.

Icon Found on
Windows Desktop



Example

- ***Sensor Signal captured by NI DAQ USB 6009 and processed through Labview 2018***
 - ***Sample rate 1000 Samples/sec***
- ***Data Acquisition in Labview***
- - ***NI DAQ USB-6009***



Questions?

