

Sixclear Lucid LabVIEW Fundamentals Training - Data Acquisition (DAQ)

The data acquisition section of Sixclear Lucid LabVIEW Fundamentals Training is delivered as part of Lucid Fundamentals Two and takes up to a half day to deliver live in the classroom, depending on the emphasis the class chooses to give. It can be delivered with hardware or by simulating devices at the software layer. When the hardware (as opposed to simulation) option is selected, we use NI USB-DAQ devices and Sixclear Signal Accessories.

A complete topics list can be found in the [“What Topics Are Covered”](#) document.

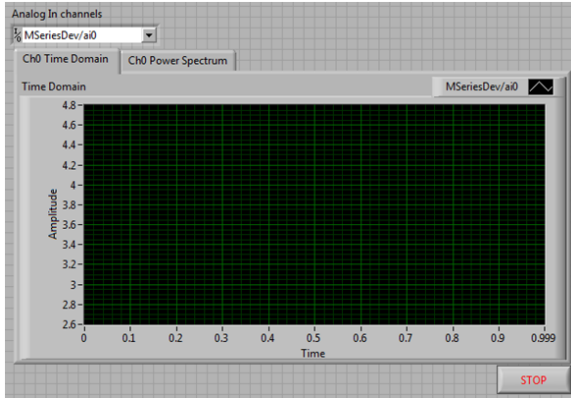
Data Acquisition

- Measurement & Automation Explorer (MAX)
- Digital I/O
- Analog I/O
- Single Sample Acquisition
- Finite Sample Acquisition
- Continuous Sample Acquisition
- DAQmx API and Driver
- Virtual Channels
- DAQmx Tasks
- Signal Wiring
- The DAQ Assistant and DAQ Express VIs
- Exercises:
 - Acquire and process analog data
 - Toggle relays/LEDs
 - Integrate data taken from NI-DAQ device and 3rd party DMM

Screenshots on next page / other side

Sample Exercise VI

Front Panel



Block Diagram

