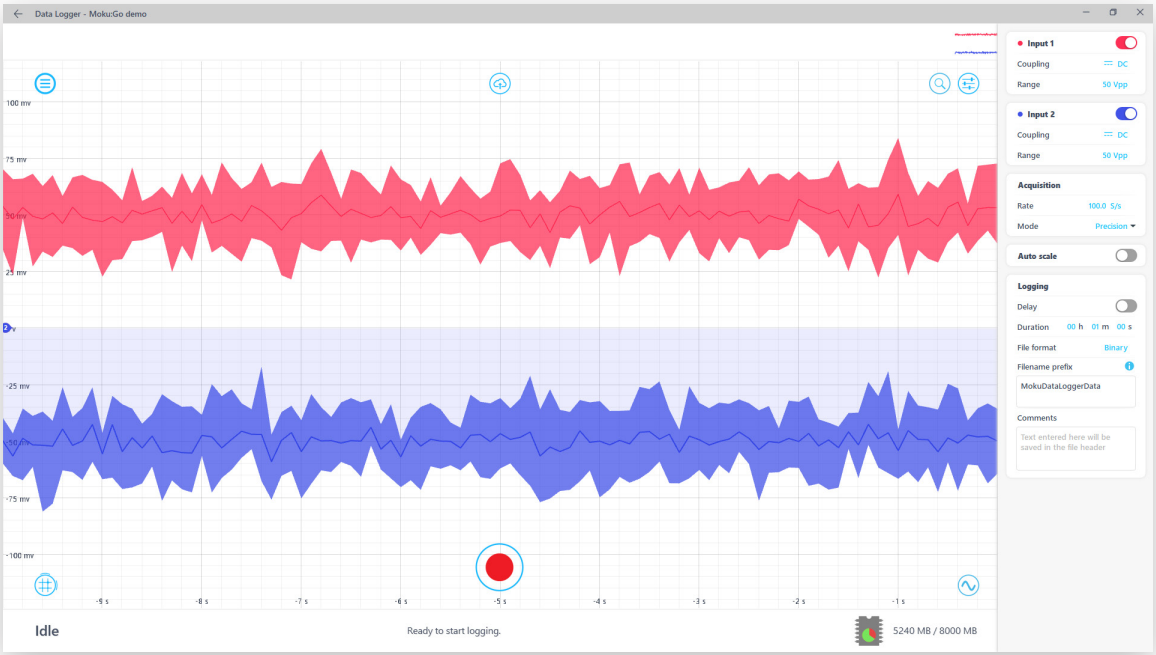
Moku:Go Instrument Datasheet

2-Channel Data Logger

The Moku:Go Data Logger enables you to log data up to 1 MSa/s directly to its internal memory. The versatile front ends allows the user to select between AC / DC couplings, and ± 5 V or ± 25 V input ranges based on the experiment. It also provides user-configurable sampling rate along with duration and delay start options. Data can be streamed live or downloaded for analysis once the measurement is complete.



Number of Inputs	Acquisition Rate	Input Range	Input Coupling	Input Impedance	Waveform Generator
2	**Up to 1 MSa/s**	**± 5 V to ± 25 V**	**AC or DC**	**1 MΩ**	**Integrated**

Features

- Log voltage data on two independent channels directly to the device
- Built-in two-channel 20 MHz waveform generator
- Easily download log files to your computer for analysis. Built-in conversion tool to convert the binary data to .csv, .mat, NumPy format
- Schedule your log to start on a delay of up to 10 days
- Stream data directly to your computer using Moku APIs, including for Python, MATLAB, and LabVIEW

Specifications

- Input range: 10 Vpp, or 50 Vpp
- Input Impedance: 1 MΩ
- Input coupling: AC/DC
- Maximum sampling rate:
  1 MSa/s with 1 channel enabled
  500 kSa/s with 2 channels enabled
- Minimum sampling rate: 10 Sa/s
- Acquisition modes:
  Normal: Direct digitization at the acquisition rate
  Precision mode: Downsampling from maximum sampling rate by averaging
  Peak detect: Displays high and low amplitude samples

Applications

- Temperature monitoring
- Vibration analysis
- Environment monitoring
- Other sensor data recording