Moku:Pro Instrument Datasheet

Data Logger



The Moku:Pro Data Logger enables you to log data to its 240 GB internal solid-state drive with sampling rates of up to 10 MSa/s. All four inputs are equipped with dual 10-bit and 18-bit ADCs which, with blended ADC technology, lowers input noise to 30 nV/√Hz at 100 Hz providing ultra-low noise data logging from acoustic to RF frequencies. Moku:Pro is also equipped with a 10 MHz clock synchronization I/O and four 500 MHz outputs, allowing flexible integration with other electronics. 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
4	**10 MSa/s to SSD**	**Up to 40 Vpp**	**AC or DC**	**50 Ω / 1 MΩ**	**Integrated**

Features

- Log voltage data on four independent channels to its 240 GB SSD
- Built-in four-channel waveform generator, up to 500 MHz
- 10 MHz clock synchronization ports
- Easily export data to computer, Dropbox, and other cloud-based services
- Schedule your log to start with a delay of up to 10 days, or by external triggered start
- Stream data directly to your computer using Moku APIs, including for Python, MATLAB, and LabVIEW

Specifications

- Input ranges: 0.4 Vpp, 4 Vpp or 40 Vpp
- Input Impedance: 50 Ω / 1 MΩ
- Input coupling: AC/DC
- Maximum sampling rate:
  - 10 MSa/s for 1 channel
  - 5 MSa/s for 2 channels
  - 2.5 MSa/s for 4 channels
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
  - Normal: direct downsampling
  - Precision: improves resolution by averaging
  - Peak detect: Displays high and low amplitude samples

Applications

- Temperature monitoring
- Vibration analysis
- Environment monitoring
- Sensor logging

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