

---

# Three Easy Steps for Stand-alone Data Logging Using a DATAQ Instruments Data Logger

By Roger Lockhart and  
Walt Ogonek  
DATAQ Instruments, Inc.

## Configure

Connect a Data Logger to the USB or Ethernet port of your PC and run the provided set up software. Configure the data logger for your specific requirements in the following ways:

- ✓ Enable or disable specific analog channels in any order.
- ✓ For enabled channels define input configuration (single-ended or differential) and gain per channel.
- ✓ Select your desired sample rate.
- ✓ Optionally for each channel define the relationship between volts and engineering units to eliminate guesswork when interpreting results. If you're recording PSI, ft-lbs, and amps for example, let the DI-710 or DI-715B record information in those units for you.
- ✓ Synchronize the data logger's real time clock to your PC's with one mouse click so each recorded data value is accurately time and date stamped.
- ✓ Select either the continuous recording mode (circular-style) or specify that the data logger should stop upon filling the SD memory card.
- ✓ One mouse click saves the above configuration to the data logger's internal non-volatile memory. You can now disconnect the data logger from the PC and any power source and carry the unit to the job site.

[View the Demo.](#)

## Record

Connect the signals you need to record, connect to any 9-36 VDC power source (or use the supplied power adaptor), and insert an SD memory card. Optionally connect the data logger's USB or Ethernet interface to a PC or LAN respectively to facilitate local or remote data uploading.

Press and hold the control button until the green Mode LED turns off, then release. The Mode LED changes to flashing red indicating that the data logger is recording data.

## Upload Data and Analyze

Minutes, hours, or days later you can move captured data to your PC for detailed analysis. Upload data from SD memory locally over the USB port, remotely over the Ethernet port, or simply

remove the SD memory from the data logger, slide it into any SD memory card reader, and instantly transfer its contents to your PC.

Recorded files are stored in a format that is compatible with our WinDaq Waveform Browser software and included with your DI-710 or DI-715B purchase, or can be downloaded by any of your colleagues so anyone, anywhere in the world can have access to your recorded data. Use our WinDaq Browser software to:

- ✓ Graphically display recorded waveform data. Instantly compress hours or days of recorded data on one screen display for a quick-look bird's eye view, and just as quickly expand any section for a closer look.
- ✓ Make precise amplitude and timing measurements.
- ✓ Instantly analyze minutes or days of waveform information to capture minimums, maximums, medians, means, areas, and much more.
- ✓ View acquired data versus time, in an X-Y format versus other channels, or in the frequency domain using built-in FFT and DFT functions.
- ✓ Correlate any acquired event with a precise date and time of occurrence.
- ✓ Export any range of waveform data to Microsoft Excel for further study.
- ✓ Generate graphical images that can be saved to the clipboard and pasted into any Windows application, or hard copied to any connected printer.
- ✓ Much more.

View the Demo.

Stand-alone data logger applications have never been easier or more productive than with DATAQ Instruments' Data Loggers and associated software.