

Software - EDR Enhanced

Waveview For Windows



WaveView for Windows is a Free Data Acquisition package supplied with all our MicroDAQ products. It supports various analog and digital functions and provides the hardware user with a ready-to-use software application. It can be used for general purpose data acquisition, data logging and analysis, as well as, monitoring.

Two modes of data collection are supported. A high speed real-time scope mode and a slower chart recorder mode. The software is extensively configurable, easy to use and quick to learn. It is Microsoft® Windows™ based and by using the mouse most functions can be performed.

WaveView for Windows is supplied free with all supported boards or can be downloaded from our website.

Features

- Up to 16 Analog Input Channels with real-time graphical display
- Fast Fourier-Transform processing function
- Up to 8 Analog Output channels supported
- Digital I/O event triggering via analog alarms
- Counter/Timer event triggering, pulse counting frequency measurement and frequency generation
- Thermocouple Inputs with real-time temperature display & Data Logger with graphical display
- Export data as an Excel File or a Bitmap
- License-free Operation
- Operating Systems: Windows 98/ME/XP/2000/NT
- TCP/IP operation via EDRE network server
- Custom versions on request

Oscilloscope



WaveView's scope mode allows for real-time analog input display & logging. Streamed data is displayed on screen in real-time on a voltage versus time graph. The graph is highly configurable and allows inputs to be labelled as well as colour-coded. General functions like scrolling, zooming and printing are also supported. To start measurements, the scope has support for hardware functions such as triggers and clock sources. Alternatively data acquisition can be triggered by software triggers or events. While sampling, data can be simultaneously streamed to disk. This data is stored in a proprietary file format which can be loaded for analysis at a later time/date. Any number of channels, up to 16, can be added to the channel list. There is also an option for exporting data or graphs as a bitmap image or a CSV data file. Data can also be analysed by doing a Fast-Fourier-Transform.

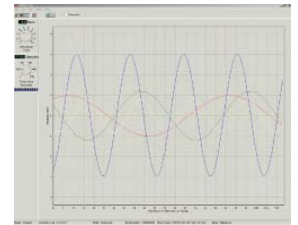
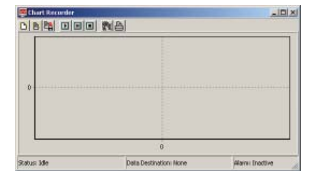


Chart Recorder



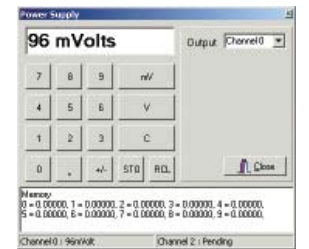
The chart recorder can be used in processes where real-time data is not of the essence. The rate is set in seconds and can be up to a few hours. Sources include digital inputs, counter readings and analog inputs. Also more than one card can be used at a time. The chart recorder can be used to connect to many different instruments like, alarm sensors, positioning sensors, temperature probes, flow meters and a few types of transducers. Each input can trigger an event that generates an alarm condition. Digital outputs can be connected to alarm or event conditions. Data can be stored on disk, and alarms and various events can be logged to file.



Power Supply



WaveView can also function as a digital power supply with a ten value deep preset facility. The digital power supply is easy to operate and will suite most laboratory environments. The power supply can supply up to 2 devices with 4 channels each.



Temperature Data Logging



The temperature module of Waveview for Windows provides the user with an easy-to-use temperature display and data logger. It allows users without programming knowledge to quickly configure our MicroDAQ Thermocouple Input Unit and to start logging and monitoring temperature inputs.

Temperature Module Features:

- Support for up to 32 Thermocouple channels
- Real-time temperature bar-graph displays for each channel
- 1 Degree accuracy
- Graphical display with configurable intervals
- Adjustable graphical formats, ie. 3-D view, zoom, selectable colours/labels per channel
- Save graphs as bitmap files or print graphs
- Streaming to disk in Excel file format

