

Chart Software



Chart software running with an e-corder hardware unit

- Virtual multi-pen chart recorder
- Up to 16 display channels
- 0.1 /min to 2×10^5 /s sampling speed
- Windows or Macintosh
- No programming required just plug and play
- Many analysis features
- Free plug-in Chart extensions
- Pre- or post triggering
- Ideal for educational or research use

Description

Turn your computer into a multi-pen chart recorder! Chart™ software runs on Windows or Macintosh computers with an **e-corder**[®] hardware unit.

Chart is suitable for recording analog voltage signals up to ± 10 V, and can be used with a wide range of instrumentation. It is also fully compatible with the range of eDAQ Amps and Pods, providing full software control of these devices.

Display Modes

Signals are displayed as a continuous record. You can scroll backwards or forward to review data, compress or expand the time and amplitude axes, zoom in for close inspection, overlay channels, or even plot the data on one channel versus the data on a second channel (XY plotting).

You can stop and start recording, with new settings if required, while new traces are appended to the existing file, keeping your hard disk free of clutter.

Signal Calibration

The signal can be displayed in true physical units, using single, double or multi-point calibration.

Data Pad

The Data Pad is an internal mini-spreadsheet that helps analyze data by extracting useful parameters (mean, standard deviation, slope, integral, etc.) from selections of data.

Notebook and Comments

Store your experimental description and observations with the data file in the internal Notebook. Comments let you add information at particular times of the recording.

Transform Data

Functions include smoothing, integrating or differentiating data. The raw data is always maintained internally and can be recovered. Inter-channel arithmetic is allowed (e.g. channel 3 = channel $2 \div$ channel 1).



Main Chart window

\varTheta 🔘 🔘 Data Pad									
▶ A 1,300 Points from t=51:35 to t=53:44.9						٢			
Sel Start	Channel 1 Mean V	Channel 1 S.D. V	Channel 1 Max-Min V	Channel 3 Mean BPM	Channel Integra V.s	al			
51:35	0.838523	0.004531	0.016875	1.410	109	-			
2:30	0.952071	0.031662	0.159250	5.220	00.04	0	Notebook		
8:40	0.923950	0.046684	0.169188	3.830	106.3	Mania	Verifering changes is reday		
12:35	0.898251	0.043250	0.170813	2.860	89.83	monitoring changes in redux			
19:00	0.880030	0.043251	0.169250	1.796	184.8	porer	potential and promide ion		
26:20	0.865716	0.039414	0.159125	1.297	151.5	Conci	oncentration during a		
34:05	0.848784	0.030681	0.140188	1.002	127.3	reaction.			
44:05	0.836940	0.011680	0.070750	1.249	217.6				
51:35	0.838523	0.004531	0.016875	1.410	109	1			
)•					Reag	ents			
_						4.3 g	Malonic Acid		

Use the Data Pad to extract parameters from selected data



Record notes on an experiment in the Notebook



Export Friendly

You can export raw signals (as graphics or tabular data), Data Pad reports, and Notebook contents to other graphing software, word processors, and spreadsheets, to prepare publication quality reports. Data files can be exchanged between Windows and Macintosh computers.

Virtual Channels

Chart can record signals from all the channels of the **e-corder** hardware, and extra channels are provided (up to 16 in total) for the display of calculated signals (differentials, integrals, etc.)

Triggering

An extensive array of trigger options allow you to synchronize recording with an external device. Pre- and post-trigger facilities are offered, as well as triggering from a rising or falling slope.

Macros

Macros can be used to automate a sequence of commands, either for data collection or analysis.

Chart Extensions

Chart extensions are free software plug-ins that add extra analysis capabilities to Chart. Download them from our web site, www.eDAQ.com.

Menu Editing

Delete, or lock, menu items to simplify the appearance of the software for routine student or technician use.

Computer Requirements

Chart requires Windows XP, 2000, MacOS 9 or later. A USB port (2.0 or 1.1) is required to collect data.

Specifications

Number of real channels: 2 (**e-corder** 201), 4 (**e-corder** 401) Number of display channels: 16 Recording speeds: 0.1 /min to 2 × 10⁵ /s Input ranges: ±2 mV to ±10 V in 2:5:10 steps Signal resolution: 16 bits Low pass filters: 1 Hz to 2 kHz Bandwidth: 20 kHz Analog output ranges: ±200 mV to ±10 V in 2:5:10 steps Waveform output: Pulse, Pulse Train, Ramp Output resolution: 16 bits Trigger modes: External, signal, or line (mains). External trigger: TTL or contact closure

Ordering

Chart software is supplied as part of an **e-corder** system, but can also be ordered as individual licenses, including Scope software (ES500).



Display real data (the number of channels depends on e-corder model) and up to 16 virtual channels



Chart extensions add specific functionality to Chart. Examples include FFT (Power Spectrum), multi-point calibration and curve fitting extensions.



Multiple blocks of data, comments and all settings are stored in the one file

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