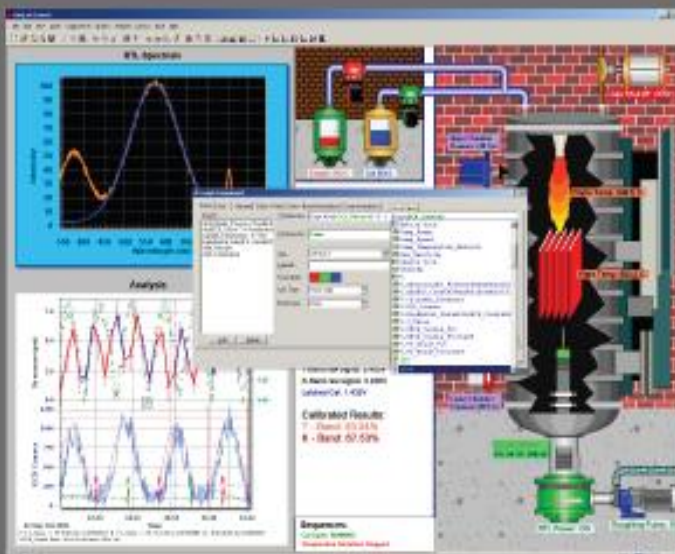


Software for data acquisition + supervisory control + analysis

Powerful, easy to use, and innovative, DAQFactory data acquisition and supervisory control software provides you with the tools you need to take, display, analyze, and share data, as well as automate your process or experiment without complex programming or wiring and without a huge expense.

- ▶ Flexible data acquisition.
- ▶ Continuous or conditional data logging.
- ▶ Unlimited user-designable screens you can create on the fly while taking data. No wiring!
- ▶ Powerful trend and XY graphing.



- ▶ PID loop control.
- ▶ Alarming with visual, email, or voice notification.
- ▶ Automation with a complete scripting engine.
- ▶ Transparent network connectivity, built-in web server, and email support.
- ▶ Extensive data analysis features.

Data Acquisition

- ▶ Quickly set up channel information to take the data you want when you want it. Throughout the rest of DAQFactory, your data is referenced by channel name. Deal with channel details only once!
- ▶ Connect to a multitude of different devices including OPC, DDE, RS-232/422/485, Modbus, and PLC's from Allen Bradley, Mitsubishi, and others, DAQ devices from Sealevel, LabJack, Access I/O, Diamond Systems, and more.

Channel Name	Device	Address	Format	Units
CH1	AI	0	16-bit	V
CH2	AI	1	16-bit	V
CH3	AI	2	16-bit	V
CH4	AI	3	16-bit	V
CH5	AI	4	16-bit	V
CH6	AI	5	16-bit	V
CH7	AI	6	16-bit	V
CH8	AI	7	16-bit	V
CH9	AI	8	16-bit	V
CH10	AI	9	16-bit	V
CH11	AI	10	16-bit	V
CH12	AI	11	16-bit	V
CH13	AI	12	16-bit	V
CH14	AI	13	16-bit	V
CH15	AI	14	16-bit	V
CH16	AI	15	16-bit	V
CH17	AI	16	16-bit	V
CH18	AI	17	16-bit	V
CH19	AI	18	16-bit	V
CH20	AI	19	16-bit	V
CH21	AI	20	16-bit	V
CH22	AI	21	16-bit	V
CH23	AI	22	16-bit	V
CH24	AI	23	16-bit	V
CH25	AI	24	16-bit	V
CH26	AI	25	16-bit	V
CH27	AI	26	16-bit	V
CH28	AI	27	16-bit	V
CH29	AI	28	16-bit	V
CH30	AI	29	16-bit	V
CH31	AI	30	16-bit	V
CH32	AI	31	16-bit	V

Data Logging

- ▶ Create as many data logging sets as necessary to store your data to disk as it is being taken. Each set can log different subsets of your data in different formats at different times. Log to ASCII to easily transfer your data to other programs like Excel, to binary for the most speed and efficiency, or to an ODBC / SQL database.
- ▶ Run export sets to store accumulated data and calculated results after the fact.
- ▶ Use the low level file functions for complete control.

Set Name	Format	Destination	Frequency
Set1	ASCII	D:\data\set1.txt	1 Hz
Set2	Binary	D:\data\set2.dat	1 Hz
Set3	SQL	SQL Server	1 Hz

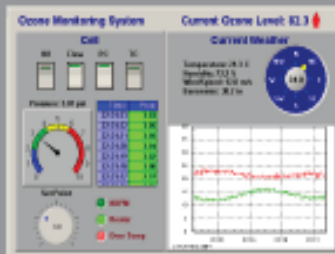
Function Parser

- ▶ Use the powerful function parser with advanced array math throughout DAQFactory. Over 140 built-in functions exist, or create your own functions using DAQFactory's scripting engine or call an external DLL library.
- ▶ Utilize the special edit boxes with syntax coloring as well as an automatic drop-down window that displays channel names and functions to make entering the expressions easy.



Custom Screens

- ▶ Use 40 different screen components and the giant library of more than 3800 symbols to create your own custom interface on an unlimited number of screens.
- ▶ Design your screens while your application is running. There's no need to stop and recompile.



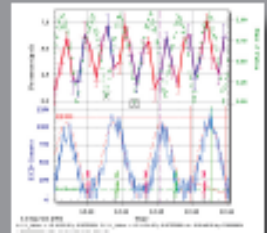
Network Connectivity

- ▶ Share your screens on the Internet using the built-in web server, or use the email client to send messages when different events occur.
- ▶ Connect to multiple data acquisition computers through a standard Internet connection or through a modem.
- ▶ Monitor multiple processes from a single location, or a single process from multiple



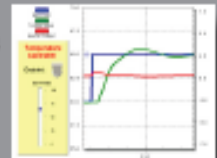
Graphing and Trending

- ▶ Produce powerful graphs for displaying trends or for X-Y inter-comparisons.
- ▶ Place as many traces as necessary on as many as 12 different Y axes.
- ▶ Add error bars, wind barbs, axis and line annotations to enhance your graph, or use variable trace coloring to display more information.
- ▶ Plot channels, enter in complex calculations, or even enter formulas based on the X axis directly.



PID Loops

- ▶ Replace your hardware PID controllers with DAQFactory's internal PID loops. Run as many loops as necessary simultaneously. Use autotuning to determine the best loop parameters.



Scripting

- ▶ Utilize the built-in data acquisition scripting language to automate your project or extend the functionality of DAQFactory.
- ▶ Run as many scripts as necessary simultaneously. DAQFactory is completely multi-threaded making it easy to perform multiple tasks at once.
- ▶ Debug your scripts with the integrated debugger.



Alarming

- ▶ Take advantage of DAQFactory's alarming features to track out-of-bounds conditions. Log the events, or perform actions such as email or phone. Designed for SCADA systems, but useful in any application.

Expert Technical Support

When you contact our technical support team, you talk with someone who helped develop DAQFactory and has years of experience in data acquisition, not just with someone reading from the manual.

AzeoTech Consultation and Custom Programming Services

AzeoTech continues its heritage of consulting services in data acquisition and process control in both research and industrial automation, including:

- ▶ Application development with DAQFactory.
- ▶ Custom programming services for unique applications.
- ▶ Custom driver development for unique hardware.
- ▶ Consultation and installation of data acquisition hardware and software.

