

DAQBench®

32-Bit Active Controls for Measurement and SCADA/HMI

DAQBench Features

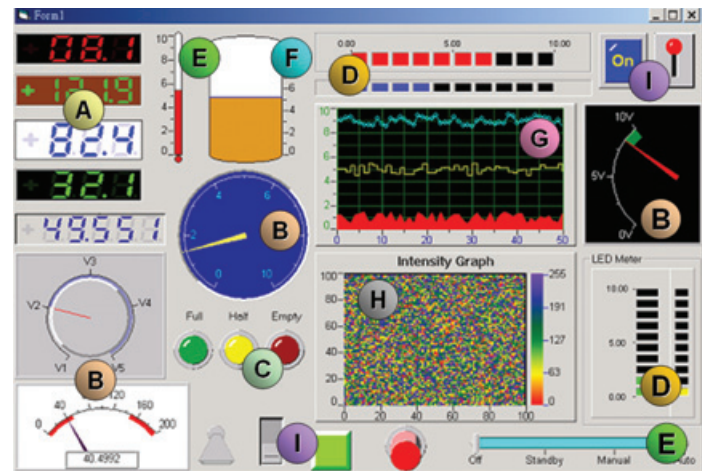
- 32-bit ActiveX controls support Windows 98/NT/2000/XP
- Easily programmable in VB, VC++, Delphi, and C++ Builder
- User-friendly property page interface for interactive configuration

DAQBench for Measurement

- Plenty of user interface controls including graph, chart, meter, knob, button, switch, slide, and 7 segment display
- Powerful analysis controls including statistics, vector, complex, matrix and FFT
- Integration controls for integrating your data with Excel, Databases, etc.

DAQBench for SCADA/HMI

- A smart tag server for automatically data gathering, data logging, and alarm generating.
- Support any kind of hardware device via OPC standards
- Distinctive controls for SCADA/HMI application including real-time trend, historical trend, alarm display, report generating, and industrial
- Support Mitsubishi PLCs, Omron PLCs, AB PLCs, Modbus/TCP, and M-System in DAQBench 2.4 package
- No limitation on tag number



A	7-segment control for numeric numbers
B	Gauge and knob control for voltage, pressure, and etc.
C	Indicator control for ON/OFF status
D	LED Meter control for signal level and equalizer
E	Slide control for continuous and discrete values
F	Tank control for liquid level
G	Graph control for any waveform or analog data
H	Intensity Graph control for thermal image or any (x, y, z) data
I	Switch control for ON/OFF control

What is DAQBench?

DAQBench is an ActiveX controls package designed for measurement and SCADA/HMI applications. DAQBench leverages Microsoft ActiveX technology, the standard for code interchangeability and integration under Windows platform. DAQBench provides plenty of ActiveX controls for data display, numeric analysis, and application integration. You can develop a powerful application with fantastic user interface by just piecing DAQBench controls together in most popular programming environments. With DAQBench, programming has never been so easy!

DAQBench® for Measurement Applications

▶ Build up your measurement application in few minutes.

A typical measurement application is usually constructed of the following 4 steps:

■ Data Acquisition

ActiveX controls for data acquisition hardware :

- DAQ/PXI-2000 series cards
- NuDAQ PCI/cPCI cards
- NuDAM remote DAQ modules
- HSL high-speed distributed I/O
- Motion control cards

■ Data Analysis

- Vector and matrix algebra
- Statistics
- Complex
- FFT
- Probability

■ Data Presentation

- Numeric
- Slider, Tank
- Knob, Meter
- 7 Segment Display
- Boolean Button, Switch, LED
- Chart/Graph
- Equipment diagram

■ Data Integration

- Excel Linker
- Web Snapshot
- OPC Client
- Database Access via ODBC
- DDE/NetDDE Client
- Thermocouple Support

DAQBench gives you a great help in each step of a measurement application. You can acquire the data by using DAQ ActiveX controls*. The DAnalysis control in DAQBench helps you analyze the acquired data. You can display the data in any way you like by choosing different user interface controls. Finally, you can also integrate your data into Excel or a database with the DAQBench data integration controls. Here is an example of using VB with DAQBench to develop a data acquisition application.

* ADLINK provides free DAQ ActiveX controls to support a entire line of data acquisition cards. Please refer to PCIS-OCX, D2K-OCX, WD-OCX and DAQBOY for detailed information

Totally 3 lines of codes

Use DAQBench controls to design the VB form

Acquire data and display data

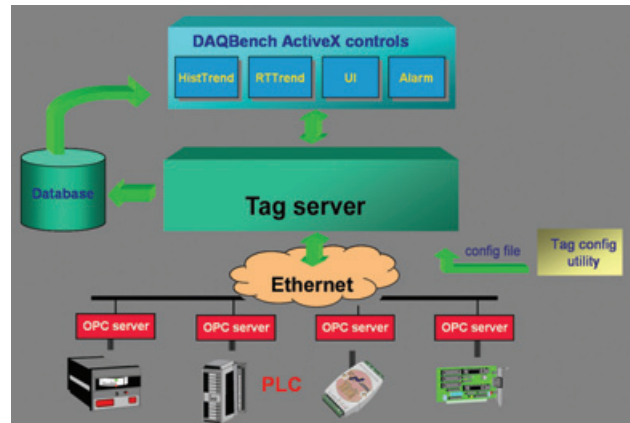
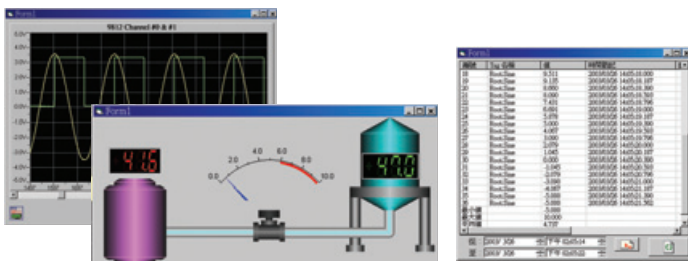
Store acquired data into Excel

DAQBench® for SCADA/HMI Applications

Unlimited SCADA/HMI applications with network accessibility

DAQBench provides a complete architecture for developing a SCADA/HMI application without the limitations of hardware alternatives and application flexibility. DAQBench utilizes OPC technology to access any kind of hardware, including DAQ modules, PLCs, DMMs, or any other hardware which has corresponding OPC server. The built-in Tag Server communicates with OPC servers to automatically gathering data, updating user-interface, logging data, and generating alarms. In addition, DAQBench provides plenty of graphical controls for you to develop a user-friendly SCADA/HMI application.

- Real-time trend** - Automatically gather data from Tag Server and display the real-time data trend
- Historical trend** - Retrieve and display data from the Microsoft .JET database
- Alarm display** - Display alarm(s) issued from the Tag Server according to the specified conditions
- Ack button** - Acknowledge alarm(s) manually
- Data report** - Retrieve past data from database and display in a report format
- Alarm report** - Retrieve past alarm(s) from database and display in a report format
- Alarm reactor** - React when alarm(s) happen(s), behaviors including pop-up window, sending an e-mail, playing an audio file, and issuing a short message.
- Tag control** - Directly read/write the corresponding I/O point
- Equipment controls** - Some industrial symbols to build up HMI interface
- User-interface controls** - Switch, knob, slide, 7-segment display.



Why using DAQBench® ?

DAQBench offers you :

- More flexibility** - Combining the ActiveX technology and programming languages, you can gain the maximum flexibility with the maximum programming effort.
- Best efficiency** - All applications using DAQBench will be compiled into a machine-code form, which implies you'll get the best run-time performance.
- Open and extensibility** - With the open ActiveX technology, you may insert any other controls cooperating with DAQBench to build up a powerful measurement application.

Ordering Information

- **DAQBench**
ActiveX controls for measurement and SCADA/HMI
- **DAQBench/S**
ActiveX controls for measurement and SCADA/HMI, with OPC servers for PLCs

1
Software Solutions

2
PXI/ CompactPCI Platforms

3
PXI-Based Instruments

4
PXI/ CompactPCI Modules

5
PCI DAQ Cards

6
PCI DIO Cards

7
PCI/ 104-Plus Products

8
ISA DAS/ DIO Cards

9
Wiring Termination Boards

10
Motion Vision & COM

11
Remote I/O Modules

12
Industrial Computers