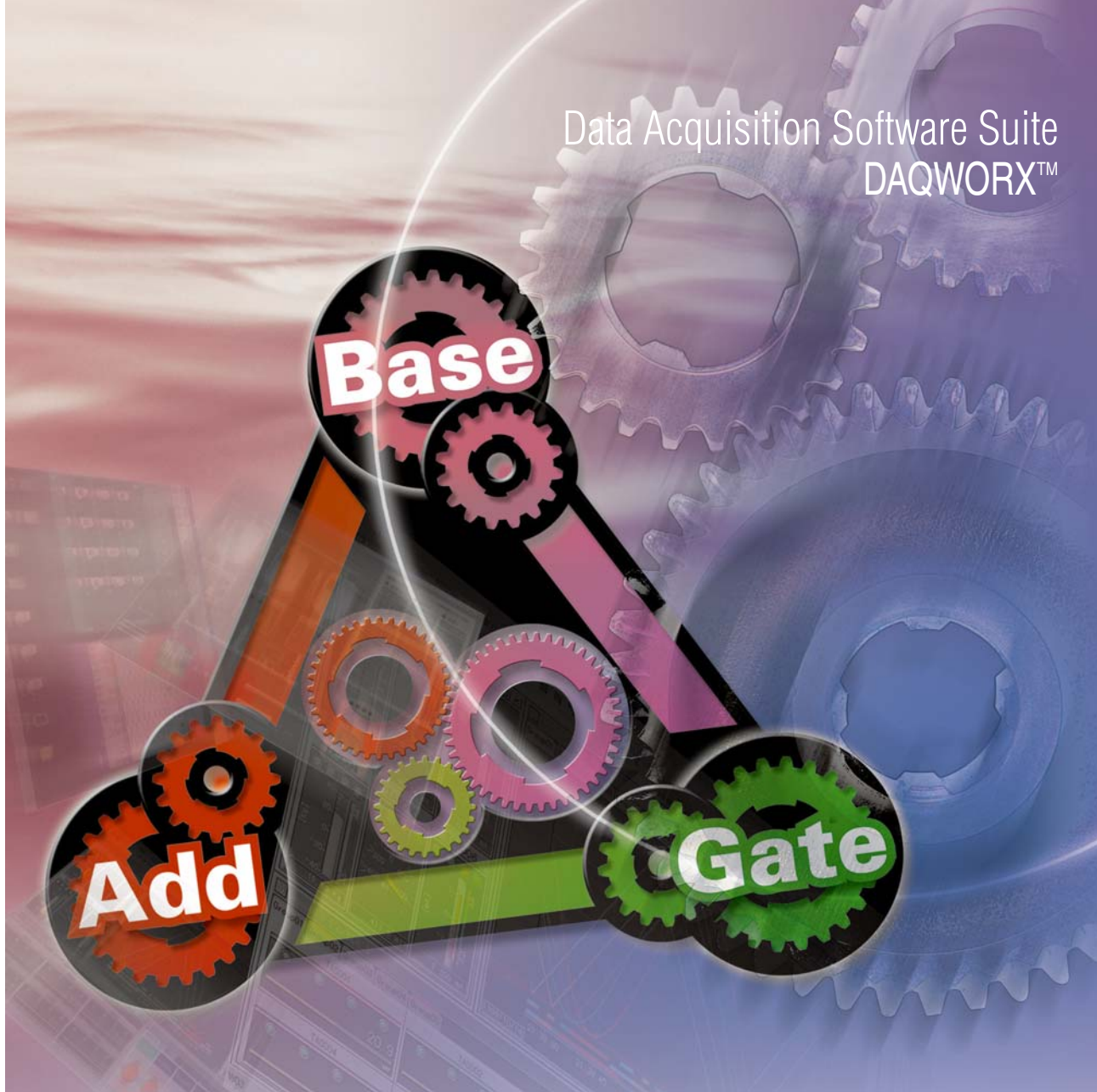


Data Acquisition Software Suite  
DAQWORX™



# DAQWORX™

Data Acquisition Software Suite

Integrated Data Acquisition Software Package

Bulletin 04L00L00-01E

[www.yokogawa.com/ns/daqworx/](http://www.yokogawa.com/ns/daqworx/)

YOKOGAWA 

## Connects a Wide Range of Devices

- Connect up to 32 of Yokogawa's major data acquisition instruments or controllers\*. \*Certain models allow only up to 16 connections

Recorders

DAQSTATION  
DX1000/DX2000, DX100/DX200,

CX1000/CX2000

μR10000/μR20000  
Industrial Recorders



μR1000/μR1800/VR100/VR200  
Industrial Recorders

MobileCorder  
MV100/MV200

DX100P/DX200P  
Pharmaceutical Model



Data Loggers

DARWIN Series

DAQMASTER  
MX100/MW100



Controllers

UT/UP Series  
Temperature Controllers

JUXTA VJ Series  
Signal Conditioners

POWERCERT Series  
Power Monitors



Measuring Instruments

WT Series  
Digital Power Meters

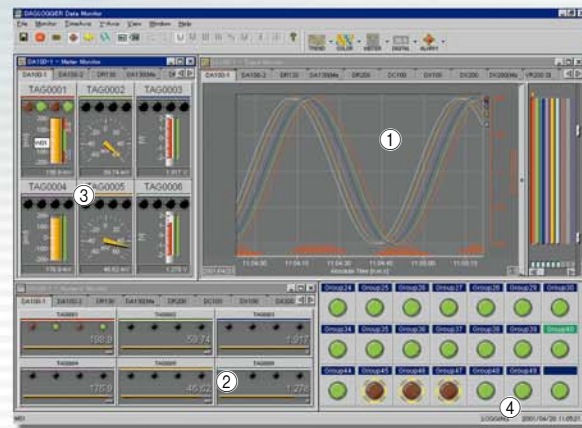


## Highly Reliable Data Logging Software

# DAQLOGGER



- Build integrated acquisition and monitoring systems comprising diverse models, all without programming.

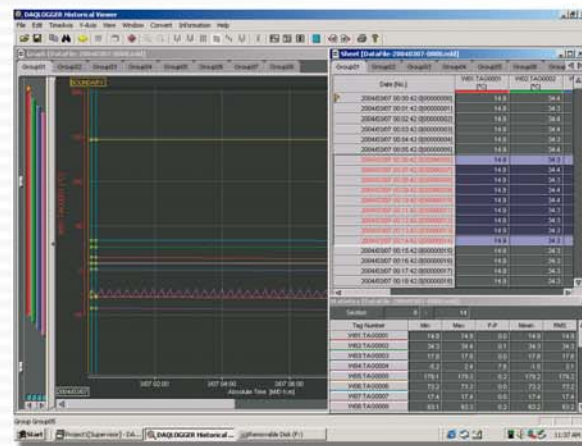


## Data Logging and Monitoring

- High speed data acquisition and monitoring on up to 1600 channels (1 second intervals\*)
- Assign up to 50 groups of 32 channels for monitoring
- A wide variety of monitor displays available

- ① Analog trend display
- ② Digital value display
- ③ Meter display
- ④ Alarm overview display

\* Performance may differ depending on number of units and channels connected, communication interface, and other factors.



## Waveform Viewer and Assorted Utilities

- Redisplay saved data in trend graphs or as numerical values
- Statistical processing over a cursor-specified area
- Writing of marks (arbitrary character strings) at specified positions
- Search displayed data for alarms, marks, and other points
- Printing and conversion of data to Excel and other formats
- Online editing of data acquisition instrument settings \*

\* Excluding instruments connected via Gate software.

## More Reliable Continuous Acquisition

- Data file power failure protection function
- Communication disconnection automatic recovery function.

## Save and Load Acquisition Setups

- Save acquisition setups as arbitrarily named "Projects", and easily switch between projects
- Password protection function prevents mishandling of data



## More Reliable Continuous Acquisition

### Events

- Alarms
- Fixed time intervals
- Data file complete
- Report complete
- Disconnect/recovery
- User operation
- Data value

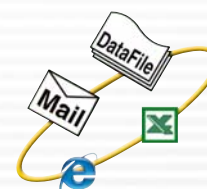
When an event is detected, a file is created and/or a previously specified process is executed.

### Files

- Data files
- Report files
- Image files
- Messages

### Processes

- E-mail transmission
- FTP transmission
- File conversion
- HTML format output



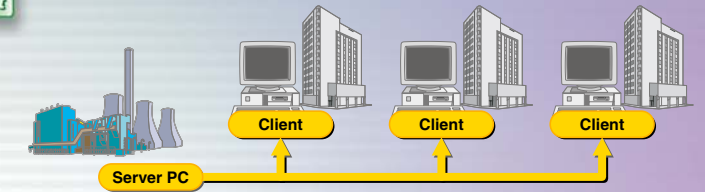
## High Added-Value Software

- Expand acquisition and monitoring functionality with Add-on software.



## DAQLOGGER Client

- Remote monitoring on up to 16 clients connected to DAQLOGGER
- Start and stop recording on DAQLOGGER remotely from the clients

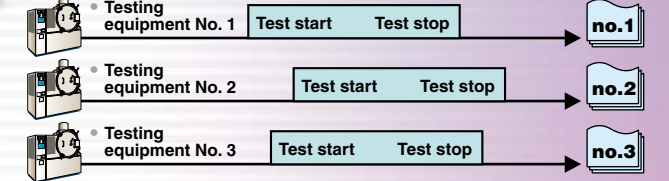


Monitor Sites Remotely



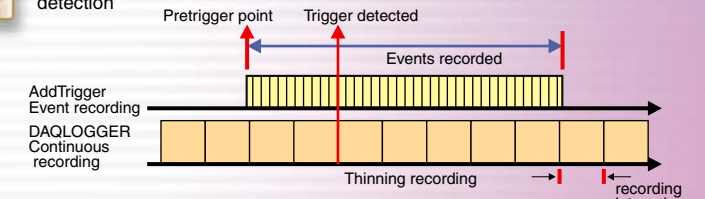
## AddMulti

- Assign up to 50 groups of up to 32 ch each and start/stop recording on each group independently.
- Recording can be manually controlled or linked to measured levels or alarm conditions.



## AddTrigger

- Start/stop recording based on trigger events set up in advance using alarm AND/OR conditions or specific times.
- Pretrigger function allows recording of data before and after the trigger detection

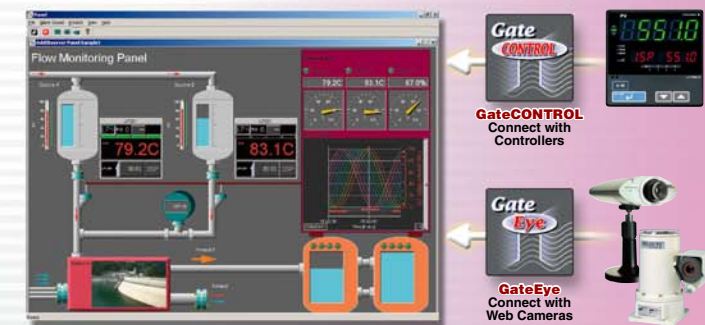


Start/Stop Data Acquisition by Group Record Details around Detected Triggers



## AddObserver

- Easily create monitor screens with a large selection of display objects (trends, meters, thermometers, etc.)
- Enables setting of SP values, switching between Run and Stop, and other operations on the connected controllers
- Displays images from Web cameras (JPEG still images)
- Enables simultaneous remote monitoring from up to 16 locations (using the Run-Time monitor)



Create Highly Intuitive Monitor Screens Operate and Monitor on-site Controllers

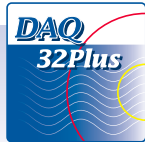
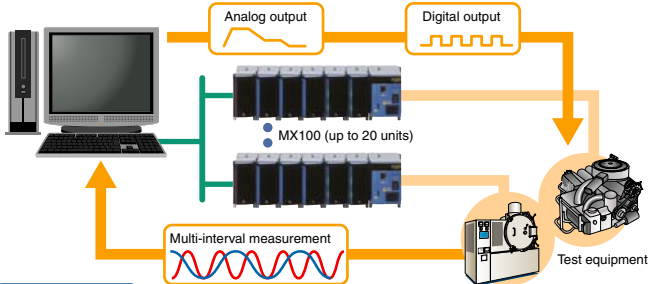
# MXLOGGER

Data Acquisition Software for the DAQMASTER MX100



## Main Functions

- Connects up to 20 MX100s for acquisition on up to 1200 channels collectively
- Operate test units with up to four types of analog waveform (pattern/manual) output and up to four types of contact manual output.
- Supports multi-interval operation (3 intervals) for highly efficient recording of a variety of signals from temperature to high speed phenomena.
- Taking advantage of the power of the PC, the software offers a variety of real time calculations (240 channels)
- Saved data can be redisplayed, printed, converted to Excel format, and manipulated in other ways.
- When combined with AddMulti/AddTrigger, you can perform trigger event recording and recording on individual groups at 24 ch/100 ms, 60 ch/100 ms, or 240 MATH ch/100 ms.
- With AddObserver, you can display data in X-Y graphs or alarm summaries.



# DAQ32Plus

- Data Acquisition Software for DARWIN
- High speed data acquisition (as fast as 0.5 seconds) on 360 channels (including MATH channels)
  - Supports Ethernet/RS-232/RS-422/RS-485/GP-IB

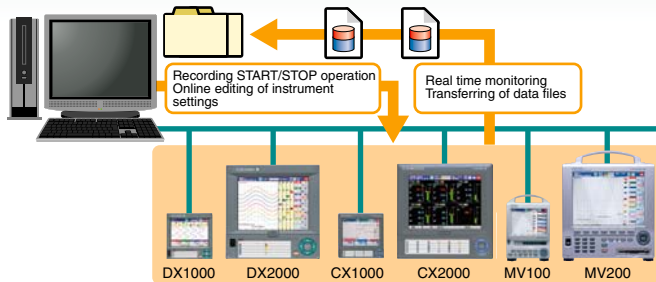
# DAQEXPLORER

DAQSTATION/MobileCorder Management Software



## Main Functions

- Centrally manage up to 16 units of the DAQSTATION or MobileCorder (excluding the DX100P/DX200P)
- Recording START/STOP, real time monitoring
- Display data files in the instrument's internal memory or on external media in a list, and easily transfer them to a PC by dragging them with a mouse.
- Data files can be redisplayed, printed, converted to Excel format, and manipulated in other ways.
- Monitor internal memory at regular intervals, automatically transfer files, and automatically convert files to Excel and other formats.
- Online editing of instrument settings.
- With AddObserver, you can flexibly design your own easy-to-read monitor screens.



# Data Browser

- File Searching and Waveform Display Software
- Search for data files on the PC by date, tag name, or other criteria
  - Display found waveforms simultaneously regardless of the model or recording interval

Supported Models: DX100/200, CX, MV, MX100Standard/MXLOGGER, DAQLOGGER/AddMulti/AddTrigger

### PC System Requirements (\* See the specification sheet for details)

- Operating System**  
Microsoft Windows 2000 Professional, Windows XP Home Edition, or Professional, Windows Vista Home Premium 32bit, or Business 32bit
- Processor and Main Memory (for Desktop PCs)**  
2000/XP: Intel Pentium III 800MHz or faster, 256MB or more (Pentium 4 1.6GHz or faster, 512MB or more recommended)  
Vista: Intel Pentium 4 2.4GHz or faster, 1GB or more (Pentium 4 3.0GHz or faster, 2GB or more recommended)
- Hard Disk**  
200MB or more of free space (1GB or more recommended for saving measured data), recommended speed of 7200rpm or faster
- Graphic Board and Display**  
200MB or more of free space (1GB or more recommended for saving measured data), recommended speed of 7200rpm or faster
- Other:**  
CD-ROM drive, sound source (sound board), speaker, A4 printer (color recommended), Ethernet or another of the various communication interfaces

### List of License and Model Codes for Integrated Packages

Model/Suffix Code	Description	Note
WX101	DAQLOGGER	Integrated data acquisition software, connect up to 32units 1600ch, highest measurement interval of 1sec <Supported models> DAQSTATION DX/CX, MobileCorder MV, DARWIN DA/DC/DR, Chart recorder μR1000/1800, View recorder VR, Gate software DAQLOGGER/MXLOGGER Client Monitor
WX81	DAQLOGGER Client	DAQLOGGER/MXLOGGER Client Monitor
WX1*	GateDX-P GateR GateMXMW GateCONTROL	DAQSTATION DX100P/DX200P (Style S4 or later) interface (connect up to 16 units) Industrial chart recorder μR10000/μR20000 interface (connect up to 16 units) DAQMASTER MX100/MW100 (for the MW100, style S2 of firmware R2.11 or later only) interface (connect up to 32 units) Control product* interface (connect up to 32 units) <Supported models> Temperature Controller UT100 series, Indicating Controller UT320/321/350/351/420/450/520/550/551/750, US1000, Program Controller UP350/351/550/750, Indicator with Alarms UM330/331/350/351, Signal Conditioner VJ U7/S7/A7/H7/P8/O7/Q8/X7, Digital Limit Alarms MV HK/RK/TK
	GateWT GateOPC GateMODBUS GateEye*	Power meter WT100/200/1000/2000/1600 interface (connect up to 16 units) OPC DA Server interface (connect up to 16 servers)* Browse function required. Modbus RTU/TCP interface (up to 300 tags) Web camera (still JPEG) interface (connect up to 4 units)
WX11	AddObserver	Add-on software for monitoring using user-created screens (with builder)
WX83	AddObserver Runtime	Add-on software for monitoring using user-created screens (run-time)
WX12	AddMulti	Data acquisition add-on software for recording by groups (32ch x 50groups)
WX13	AddTrigger	Data acquisition add-on software with various condition triggers
WX201	DataBrowser	Advanced file searching and waveform viewing software
Options /NCD	License sheet only	Product CD-ROM, manual CD-ROM, and Installation & Operation Guide not included

\* With each WX1 license you can launch one Gate software application. A separate WX1 license must be purchased for each Gate program you wish to run simultaneously (up to five). Note that multiple instances of the same type of Gate program cannot be run on the same PC.  
\* GateEye is used by connecting to AddObserver.  
\* The various control products may not be connectable depending on the date of manufacture. See the specification sheet for details.

### Note



Please read all relevant users manuals for correct and safe operation of instruments.



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### List of License and Model Codes for Product Specific Packages

Model/Suffix Code	Description	Note
WX102	DAQ32Plus	Data acquisition software for DARWIN (single connection)
WX82	DAQ32Plus Client	DAQ32Plus Client Monitor
WX103	MXLOGGER	Data acquisition software for DAQMASTER MX100 (connect up to 20 units)
WX81	DAQLOGGER Client*	DAQLOGGER/MXLOGGER Client Monitor
WX104	DAQEXPLORER	Software for DAQSTATION DX/CX, MobileCorder MV (connect up to 16 units)
WX11	AddObserver	Add-on software for monitoring using user-created screens (with builder)
WX83	AddObserver Runtime	Add-on software for monitoring using user-created screens (run-time)
WX12	AddMulti*	Data acquisition add-on software for recording by groups (32ch x 50groups)
WX13	AddTrigger*	Data acquisition add-on software with various condition triggers
WX201	DataBrowser	Advanced file searching and waveform viewing software/Advanced file searching and waveform
Options /NCD	License sheet only	Product CD-ROM, manual CD-ROM, and Installation & Operation Guide not included

\* Restrictions on the number of hardware connections and the acquisition interval apply when using MXLOGGER in combination with AddMulti, AddTrigger, and DAQLOGGER Client. For more information, please visit our Web site (<http://www.yokogawa.com/ns/>) or contact your nearest Yokogawa representative.

### List of License and Model Codes for Upgrades

Model/Suffix Code	Description	Applicable models (as of June 22, 2007)
WX101UP	DAQLOGGER upgrade	DAQLOGGER R3/R4/R5/R6 -> R7 latest release
WX102UP	DAQ32Plus upgrade	DAQ32Plus R9/R10 -> R11 latest release
WX103UP	MXLOGGER upgrade	MXLOGGER R1 -> R2 latest release
WX104UP	DAQEXPLORER upgrade	DAQEXPLORER R1/R2/R3 -> R4 latest release
WX11UP	AddObserver upgrade	DAQOBSERVER/AddObserver R1/R2/R3 -> R4 latest release
WX12UP	AddMulti upgrade	AddMulti R1 -> R2 latest release/AddMulti R1 -> R2 latest release
Options /NCD	License sheet only	Product CD-ROM, manual CD-ROM, and Installation & Operation Guide not included

\* The following upgrades must be purchased as full products (no discount upgrade options available): DAQLOGGER Client (R3/R4/R5/R6 -> R7 latest release), DAQ32Plus Client (R9/R10 -> R11 latest release), DAQOBSERVER/AddObserver Runtime (R1/R2/R3 -> R4 latest release).  
\* For release upgrades from older versions other than the above, please contact your Yokogawa representative.

**NCD:**When ordering DAQWORX model WX, the package includes the ordered quantity's worth of product CD-ROMs, manual CD-ROMs, and Installation & Operation Guides plus the license sheet. The CD-ROMs and Installation & Operation Guides are the same, therefore if multiple copies are not needed, please specify the /NCD option (WX, \_\_/NCD) for all but the first item.

### Free Revision Upgrade

- Customers with the latest version of the license (see table below) can upgrade to the latest release (obtain a "revision upgrade") of the software through one of the following methods.
- Through the latest edition of the DAQWORX CD-ROM obtained when purchasing other additional software. Otherwise, you can also purchase the CD-ROM medium only (model B9991WB).
- Download the upgrade from the Product Registration members page on our company's Web site (<http://www.yokogawa.com/ns/daqworx/>).

#### List of versions eligible for the free revision upgrade (as of June 22, 2007)

DAQLOGGER/DAQLOGGER Client: R7, Gate software: All, DAQ32Plus/DAQ32Plus Client: R11, MXLOGGER: R2, DAQEXPLORER: R4, AddObserver/AddObserver Runtime: R4, AddMulti: R2, AddTrigger: R1, DataBrowser: R1
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