

■ DAQLOGGER (VA510) Specifications

System Requirements

- PC: PC running Windows 95*, 98, NT 4.0 (Service Pack 3 or later), or Windows 2000**, with:
- An MMX Pentium 166 MHz or higher processor (Pentium II 300 MHz or higher recommended) and at least 64 MB of RAM (128 MB or more recommended) is required to run the 400-channel model of DAQLOGGER.
 - A Pentium II 300 MHz or faster (Pentium III 400 MHz or higher recommended) and at least 128 MB of RAM (256 MB or more recommended) is required to run the 1000-channel model of DAQLOGGER.
 - A Pentium III 400 MHz or faster (Pentium III 600 MHz or higher recommended) and at least 128 MB of RAM (256 MB or more recommended) is required to run the 1600-channel model of DAQLOGGER.
- Hard disk: At least 30 MB of free space is required when installing the software. (The free hard disk space needed for data storage depends on the amount of data to be stored.)
- Display: At least 800 x 600 resolution (1024 x 768 recommended); 32,768 colors
- CD-ROM drive: A CD-ROM drive supported by your Windows operating system is required for installing the software.
- Communication interface: RS-232-C ports supported by your Windows operating system (Ports COM1 to COM9 can be used.) Ethernet port (when connecting DAQSTATION, MobileCorder, or DARWIN equipment via Ethernet)
- Printer and pointing device: A mouse supported by your Windows operating system is required. A printer supported by your Windows operating system is required for printing.

* When running Windows 95 use Microsoft Internet Explorer version 3.02 or later.

** Windows NT 4.0 or later is recommended as the operating system for DAQLOGGER. If DAQLOGGER is run under Windows 95 or Windows 98, it is more likely to fail to acquire some data during scanning due to the nature of these operating systems, in comparison to Windows NT 4.0 or Windows 2000. If you experience this type of problem, increase the measurement scan interval as needed.

Operating Conditions

Data acquisition/recording products supported by DAQLOGGER: μ R1000, μ R1800, VR100, VR200, DX100, DX200, MV100, MV200, DA100, DC100, DR130, DR231, DR232, DR241, DR242 Models and applicable communication methods

	μ R1000	μ R1800	VR100	VR200	DX100/200	MV100/200	DR240	DR230	DR130	DC100	DA100
RS-422-A	√	√	√	√	√	√	√	√	√	√	√
RS-232-C				√	√	√	√	√	√	√	√
Ethernet				√	√	√	√	√	√	√	√

Other devices needed: An RS-232-C/RS-422-A/RS-485 converter is required when connecting recorders using their RS-422-A/485 ports. (For the recommended model, contact your nearest sales representative.)

Connectable number of recorders: 32 maximum (mixture of above models allowed)

Maximum number of channels: 400, 1000, or 1600 depending on the model of DAQLOGGER

Shortest data acquisition interval: 1 second can be set, depending on the system configuration (such factors as the PC's performance, number and types of connected recorders, and baud rate). Note that an alarm occurring and cleared within a data acquisition interval cannot be detected.

Channel control: Implemented by grouping (up to 50 groups, each of which can contain up to 32 channels)

Data Logger Software (Manager Software)

Major functions: Launcher for other software tools (buttons beneath the menu bar are used to start all the software included in the package); logging start, execution, and stopping; setting of data directories; setting of acquisition conditions; etc.

Monitor Software

Display formats: Analog trends, digital values, meters (bar-graph meters, analog meters, and thermometers), alarm overviews, and color graphs

Number of channels on which data can be viewed: Any combination of 32 channels per group, and up to 50 groups

Viewer Software

Readable files: Data files already saved or in the process of data acquisition using the logging software; report files saved by the report software

Display formats: Analog trends, digital values, and report results

Number of channels on which data can be viewed: Any combination of 32 channels per group, and up to 50 groups

Other features: Point-to-point computation (display of values at two specified cursor points, and indications for statistical values between those two points); writing comments as marks; alarm and mark searching; saving specified range of data to another file

Point-to-point computation: Maximum, minimum, average, root-mean-square value, and peak-to-peak value

Data conversion: Selectable from ASCII text, Lotus 1-2-3, Microsoft Excel formats

Printing: Printout of analog trends, digital values, and report results

DDE Server Software

Major functions: Provides DDE services for access to a maximum of 1600 tags (channels).

Setup Software

Major functions: Exchange of setup information with the connected recorders, editing recorder settings, and creation of setup files
Settings in the Set mode:
Can be made for all the connectable recorder models.
Settings in the Setup mode:
Cannot be made for the μ R series recorders. The communication settings cannot be made for the VR series recorders.

Environment Setting Software

Environment setting: Configuration of connected instruments for communication (port, address, baud rate, parity and stop bits, and Ethernet address for each)

Recorder model identification: Examination of connected recorders (model and number of channels for each recorder as well as module configuration for a DARWIN unit)

Tag Setting Software

Major functions: Retrieval of tag information from the connected recorders, setting channels and tags on which data is acquired, and setting tag characters used for the monitor, viewer, group setting, and report software

Group Setting Software

Major functions: Assigns 32 tags (channels) to each of up to 50 groups.

Report Software

Major functions: Creates hourly, daily, weekly, and monthly reports (containing instantaneous, average, maximum, minimum, interval total, and cumulative total values).

Report file formats: Binary (DAQLOGGER viewer-specific format), text file containing tab-separated values, and print format

Monitor Server Software

Major functions: Transfers data to DAQLOGGER client software via Ethernet. Up to 16 DAQLOGGER clients can be connected to the monitor server.

File Utility Software

Major functions: Divides, links, converts, and reconfigures data files created by the DAQLOGGER.

Link: Links specified files and stores it with a new file name.

Division: Divides specified files at every hour, for every specific number of data points, at time intervals, or for a specific range (based on the number of data or a time range).

Conversion: Collectively converts specified files or all files in a specified directory to ASCII, Excel, or Lotus 1-2-3 format.

Reconfiguration: Links files and re-divides them according to new condition settings.

Event Processor

Major functions: Performs pre-registered actions on the specified target files when a selected event condition occurs.

Event conditions: Alarm occurrence, regular time interval, data file creation, report file creation, detection of recorder disconnection and recovery, and user event (registered on a PC menu)

Target files: Data file, report file, PNG file, or user file (text file of instantaneous values)

Corresponding actions: E-mail transfer, FTP transfer, and file conversion (to ASCII, Excel, or Lotus 1-2-3 format)

Number of registered events: Up to 8. Two conditions set for each event.

Number of corresponding actions: Up to 10 for each registered event.

Note 1: If the data file or report file is selected as the target file type but an actual target file has not been created when an event condition occurs, the DAQLOGGER changes the corresponding action as follows:

E-mail transfer: Does not transfer the target file.

FTP transfer, file conversion: Does not transfer or convert the target file.

Note 2: If the PNG file or user file is selected as the target file type and file conversion as the corresponding action, the target file cannot also be the file to be converted.

■ DAQLOGGER VA520 Client Package Software

System requirements: Same as the DAQLOGGER VA510.

Major functions: The package contains the following software:

- Remote monitoring software
- Viewer software (same as that of the DAQLOGGER VA510)
- File utility software (same as that of the DAQLOGGER VA510)

Remote monitoring: Connects to the DAQLOGGER monitor server via Ethernet for realtime monitoring. Simultaneous access to up to 16 clients (those with the same license number cannot be accessed at the same time).

Display formats: Analog trends, digital values, meters (bar-graph meters, analog meters, and thermometers), circular graphs, alarm overviews, and color graphs

■ Model and Suffix Codes

Name	Model	Suffix Code	Description
DAQLOGGER	VA510		DAQLOGGER
	Operating system	-0	Windows 95, 98, NT 4.0, or 2000
	Number of channels	1	400 channels
		2	1000 channels
	3	1600 channels	
	Language	-2	English
DAQLOGGER client	VA520		DAQLOGGER client
	Operating system	-0	Windows 95, 98, NT 4.0, or 2000
	Number of channels	1	Up to 1600 channels
	Language	-2	English