User's Manual

WX1 GateDX-P

vigilantplant®



This manual describes the functions and operating procedures of GateDX-P. To ensure correct use, please read this manual thoroughly before beginning operation. After reading the manual, keep it in a convenient location for quick reference in the event a question arises.

Gate-DXP is a software program that acquires data from the DX100P/DX200 and transfers it to DAQLOGGER or Remote Monitor.

Note

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Overview of This Manual

Structure of This Manual

This user's manual consists of the following chapters.

Chapter	Title	Description	
1	Overview	Gives an overview of the GateDX-P software.	
		Lists the PC requirements for running Gate-DXP and	
		gives information about system configuration.	
2	Operating Procedure	Gives procedures for entering environment and data	
		logging interval settings, and how to monitor the	
		operational status of the software.	
3	Detailed Description of	Provides a detailed description of the functions of	
	Functions	GateDX-P. Lists error messages, their causes, and their	
		corrective actions.	
Index		An alphabetical index of the manual's contents.	

Scope of This Manual

This manual does not explain the basic operations of your PC's operating system (OS). For information regarding the basic operations of Windows, see the Windows user's manual.

Conventions Used in This Manual

Units

K Denotes 1024. Example: 10 KB M Denotes 1024K. Example: 10 MB G Denotes 1024M. Example: 2 GB

Boldface Type

Hardware and software controls that the user manipulates such as dialog boxes, buttons, and menu commands are often set in boldface type.

Subheadings

On pages in chapters 1 through 3 that describe operating procedures, the following subheadings are used to distinguish the procedure from their explanations.

Procedure

This subsection contains the operating procedure used to carry out the function described in the current section. All procedures are written with inexperienced users in mind; experienced users may not need to carry out all the steps.

Note

Calls attention to information that is important for proper operation of the instrument.

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1.1 Overview of GateDX-P Functions

Gate-DXP is a software program that acquires data from the DX100P/DX200 and transfers it to DAQLOGGER or Remote Monitor. Using GateDX-P allows you to monitor data on DAQLOGGER or Remote Monitor that is measured on the DX100P or DX200P. Yokogawa's DAQLOGGER is a software program that allows users to open a connection from their PC to various kinds of Yokogawa recorders (the mR, VR, DARWIN, DX, MV, and CX) and perform data logging and monitoring.

Yokogawa's Remote Monitor is application software that enables monitoring of data logged by recorders or data logging software.

Features

- · Runs as a Windows application.
- · Up to 16 DX100P/DX200Ps can be linked.
- Measurement can be performed at intervals of up to 0.5 seconds.
 - * However, DAQLOGGER's shortest interval is 1 second. Also, the maximum speed of 0.5 seconds may not be attainable depending on the amount of data being read, the response time of the device, and the communication speed.

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1.2 System Overview

System

This software can connect with and download data from DX100P/DX200Ps having the following characteristics.

• DX100P: Style 4 or later. The /C2 option is required for RS-232 communications.

The /C3 option is required for RS-422-A/485 communications.

• DX200P: Style 4 or later. The /C2 option is required for RS-232 communications.

The /C3 option is required for RS-422-A/485 communications.

Required Operating Systems

Run DAQWORX under any of the following operating systems.

- Windows Vista Home Premium SP2 (excluding the 64-bit editions)
- Windows Vista Business SP2 (excluding the 64-bit editions)
- Windows 7 Home Premium, SP1 (32-bit and 64-bit editions)
- Windows 7 Professional, SP1 (32-bit and 64-bit editions)
- Windows 8 (32-bit and 64-bit) (Supports the desktop mode)
- Windows 8 Pro (32-bit and 64-bit) (Supports the desktop mode)

The language displayed by the software under different language versions of the OS are as follows.

OS Language	Software Language
Japanese	Japanese
Other	English

Hardware Requirements

The following hardware is required to use GateDX-P.

PC: A PC that runs one of the OS above, and that meets the

following CPU and memory requirements.

When Using Windows Vista

Pentium 4, 3 GHz or faster Intel x64 or x86 processor; 2 GB or

more of memory

When Using Windows 7 or Windows 8

32-bit edition: Intel Pentium 4, 3 GHz or faster x64 or x86

processor; 2 GB or more of memory

64-bit edition: Intel x64 processor that is equivalent to Intel Pentium 4, 3 GHz or faster; 2 GB or more of memory

Free disk space: 200 MB or more

• Communication device: An Ethernet (when connecting to DAQLOGGER or Remote

Monitor), RS-232, or GPIB port that is recognized by the

operating system.

CD-ROM drive: Used to install the software

Peripheral devices: A mouse supported by the operating system

GP-IB port: Required for GPIB communications between the software and

a WT series instrument

Monitor: A video card that is recommended for the OS and a display

that is supported by the OS, has a resolution of 1024×768 or higher, and that can show 65,536 colors (16-bit, high color) or

more.

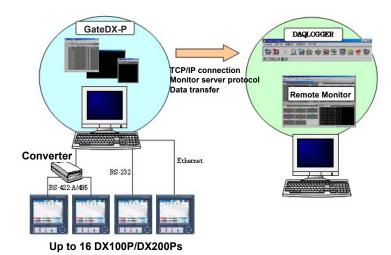
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Note _

An RS-232 to RS-422-A/485 converter is required to perform communications between the software and another DX100P/DX200P via RS-422-A/485 (Yokogawa ML2 RS232C/RS485 recommended).

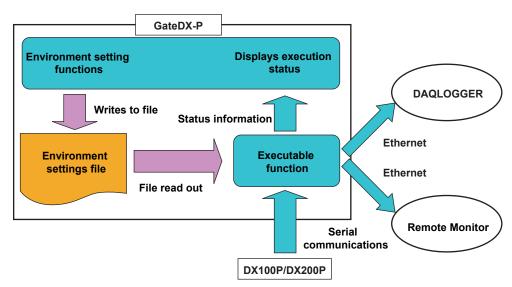
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System Configuration



It is recommended that you run GateDX-P and DAQLOGGER on separate PCs.

Software Configuration



GateDX-P Configurator consists of two separate software functions. The role of each function within the configurator is as follows:

Environment Setting Functions

Acts as the user interface for GateDX-P.

These functions allow the user to enter various settings required by the executable function for communications with the DX100P/DX200P, as well as those required for data transfers to and from DAQLOGGER and Remote Monitor. The user can also use the environment setting functions to start/stop the executable function, or view the execution status.

Executable Function

The software reads data from the DX100P/DX200P at fixed intervals. It also acts as a monitor server, transferring data to DAQLOGGER and Remote Monitor.

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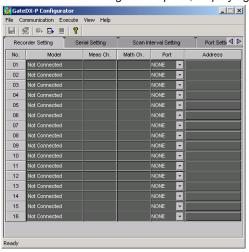
2.1 Running and Exiting GateDX-P

Running the Software

Procedure

 From the Windows Start menu, choose Programs > YOKOGAWA DAQWORX > GateDXP > GateDX-P.

The Gate-DX-P Configurator opens, displaying the user interface.

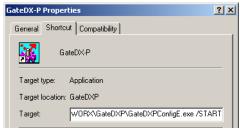


Note

- When you start GateDX-P it is restored to the same status that was active during the previous session.
- If the program is closed while a process or service is running, the license will be considered
 to be "in use." If the message, "Invalid license number. Please reinstall." appears when
 restarting the program, it may indicate that the user is attempting to run a Gate program in
 excess of the number of available licenses.

Starting GateDX-P in Acquisition Start Mode

- From the Windows Start menu, choose Programs > YOKOGAWA DAQWORX > GateDXP > GateDX-P, then right-click GateDX-P and select Create Shortcut.
- 2. Right-click the shortcut icon and select Properties.
- Choose the Shortcut tab, then add /START to the right of the path in the Target box and click OK.



4. Choose the shortcut from the Windows Start menu. The connection status of the previous session is restored, and acquisition begins.

Exiting the Software

Procedure

 Choose File > Exit from the menu bar, or click the X button at the right end of the title bar.

GateDX-P closes.

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2.2 Entering Environment Settings

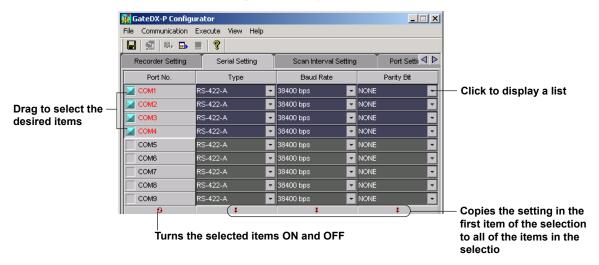
The following settings can be entered using the configurator.

- DX100P/DX200P assignments, communications settings, and login settings
- Acquisition interval settings for each DX100P/DX200P
- · Port number settings (for the monitor server) as needed
- · The settings can be saved

Serial Port Settings

Procedure

1. Click the Serial Setting tab or choose View > Serial Setting from the menu bar. The Serial Setting tab is displayed.



2. Enter settings for each item.

Port number: ON (blue)/OFF (gray)

Type: RS-232-C, RS-422-A/485

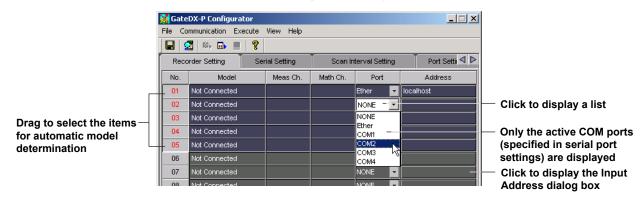
Baud rate: 9600,19200,38400
Parity: NONE, ODD, EVEN

Recorder Settings

Procedure

 Click the Recorder Setting tab or choose View > Recorder Setting from the menu bar.

The Recorder Setting tab is displayed.



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Port Settings

2. Enter the port and address.

Port: Select the port to be used for the connection. Only the numbered COM ports turned ON in the license setting tab are displayed.

For Ports Set to Ethernet

Click a cell in the address column to open the dialog box in the figure below.



Enter the following settings.

IP address or host name: enter the IP address or host name of the DX100P/

DX200P to which you wish to connect.

User name: enter the user name specified on the DX100P/DX200P to which

you wish to connect.

User ID: enter the user ID specified on the DX100P/DX200P to which

you wish to connect.

Password: enter the password specified on the DX100P/DX200P to which

you wish to connect.

Note.

When logging on to the DX100P/DX200P from GateDX-P, the default password for the DX100P/DX200P cannot be used. If it is used, login will fail.

For Ports Set to COM

Click a cell in the address column to open the dialog box in the figure below.



Select an RS-422-A address.

Address: only valid for COM ports using Ethernet or RS-422-A/485.

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Automatic Model Determination

- 3. You can drag to select the items for automatic model determination.
- Click Auto determination on the toolbar or choose Communication > Recorder Model Determination from the menu bar.



The following items are displayed.

Model: The specific DX100P/DX200P models to be

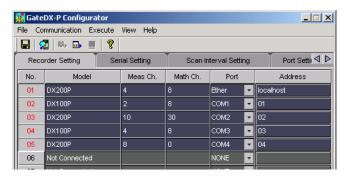
connected.

Measurement channels: The number of measurement channels on the

connected DX100P/DX200P.

Math channels: The number of math channels on the connected

DX100P/DX200P.

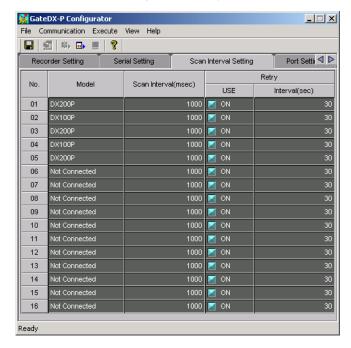


Scan Interval and Retry Settings

Procedure

 Click the Scan Interval Setting tab or choose View > Scan Interval Setting from the menu bar.

The Scan Interval Setting tab is displayed.



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Setting the Scan Interval

2. Specify a scan interval from 0.5 to 3600 seconds.

Setting the Number of Retries

- 3. Turn the communication retry setting ON or OFF.
- **4.** Enter the time interval between retries. Setting range: 30–3600 seconds

Port Settings

Procedure

Click the Port Setting tab or choose View > Port setting from the menu bar.
 The Port Setting tab is displayed.



2. You can change the port number used by the monitor server.

Saving Environment Settings

Procedure

1 Click the Save button on the tool bar or choose File > Save from the menu bar.



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2.3 Connecting from DAQLOGGER or Remote Monitor

While the executable function is running, DAQLOGGER or Remote Monitor works via Ethernet to log and monitor the data that the DX100P/DX200P is acquiring. Gate-DXP's executable function acts as the client of a DAQLOGGER or Remote Monitor that is running as the monitor server.

In this case, system numbers are assigned as follows:

DX100P/DX200P assigned to Recorder1: 0 DX100P/DX200P assigned to Recorder2: 1

Connecting from DAQLOGGER

Procedure

See section 2.6 of the WX101 DAQLOGGER WX81 DAQLOGGER Client Package User's Manual (IM WX101-01E).

Connecting from Remote Monitor

Procedure

See section 8.1 of the WX101 DAQLOGGER WX81 DAQLOGGER Client Package User's Manual (IM WX101-01E), or section 9.2 of the WX102 DAQ32Plus WX82 DAQ32Plus Client Package User's Manual (IM WX102-01E).

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2.4 Process Run/Stop and Service Run/Stop

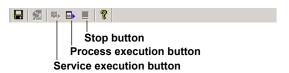
Running/Stopping from the Menu Bar

Procedure

Running as a Process or Service

 Click the Service execution or Process execution button on the tool bar. Or, choose Execute > Service or Execute > Process from the menu bar.

The executable function starts as a process or service. "Service" or "Process" is displayed under Practice Status on the Practice Status tab.



Note .

- · Service execution can only be specified by users with Administrator privileges.
- · Services cannot be executed when using Windows Vista.

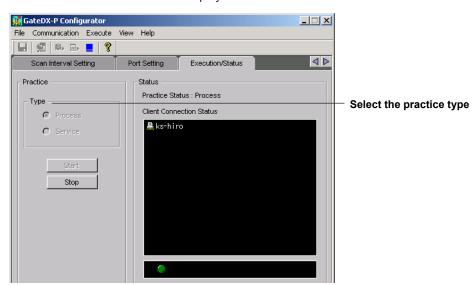
Stopping the Process or Service

Click the Stop button on the tool bar or choose Execute > Stop from the menu bar.
 The Practice Status item shown on the Practice/Status tab displays "Stop."

Running/Stopping the Executable Function from the Execution/Status Tab

Procedure

Click the Execution/Status tab or choose View > Execution/Status from the menu bar.
 The Execution/Status tab is displayed.



Running as a Process or Service

- 2. Select to execute the function as a process or service.
- 3. Click Practice.

The executable function starts, and "Service" or "Process" is displayed under Practice Status.

Stopping the Process or Service

2. Click the Stop button.

"Stop" is displayed for the practice status.

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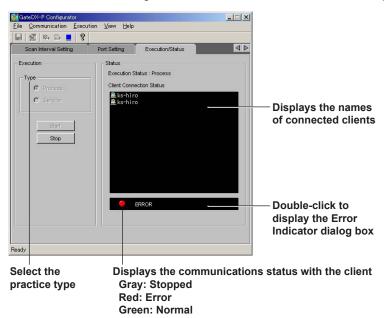
2.5 Viewing the Status of the Executable Function

Procedure

Displaying the Connection Status

 Click the Execution/Status tab, or choose View > Execution/Status from the menu har

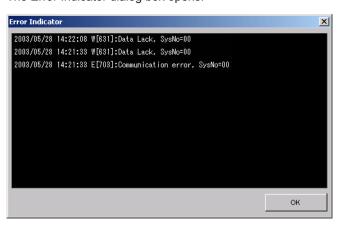
The Execution/Status tab is displayed, allowing you to see the method under which the executable function may be running (as a process or as a service), whether or not it is running, and with which PCs communications are open.



Viewing Error Detail

2. Double-click the box displaying the client communication status on the Execution/ Status tab (shown above).

The Error Indicator dialog box opens.



See section 3.3 for error messages.

Note.

- If a warning message is displayed (code Wxxxx), the lamp that displays the connection status by color does not blink red.
- When an error occurs and the lamp blinks red, the Error Indicator dialog box appears. If you close the dialog box, the lamp turns green.

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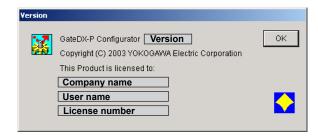
Viewing Version Information

Procedure

1. Click the About button on the tool bar or choose **Help > About** from the menu bar.



The Version dialog box opens.



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3.1 Overview

Gate-DXP performs Ethernet communications with the DX100P/DX200P and acquires data at regular intervals. Through the monitor server function, the acquired data is transferred to DAQLOGGER or Remote Monitor via Ethernet.

The following is a list of the features of each software function.

Environment Setting Functions

Environment setting functions are used to enter all environment settings required to run the executable function.

Serial Port Settings (as Needed)

Port

Type (RS-422A/485 or RS-232-C)

Baud rate

Parity

Recorder Settings

Port

Address

User name

User ID

Password

Automatic model determination

Scan Interval Settings

Scan interval setting for each recorder (0.5 to 3600 sec.)

Communication retry ON and OFF

Retry interval

Port Settings

Port number for monitor server

Port number for getting status

Executable Function Start/Stop

Runs as a service

Runs as a process

Executable Function Status Display

Practice status display (stopped, running as a service, running as a process)

Display of the connection status from the client

Executable Function

Features of the executable function are as follows:

- · Running as a process and as a service is possible.
- Instantaneous data values are acquired from up to 16 DX100p/DX200Ps at regular intervals.
- Runs as a monitor server via Ethernet if DAQLOGGER or Remote Monitor is the client.

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3.2 Detailed Description of Functions

Serial Port Settings

GateDX-P can use the COM1-COM9 serial ports.

The user must enter the following port settings.

- · Use/Do not use (ON/OFF)
- Type (RS-422-A/485 or RS-232-C)
- Baud rate: 4800, 9600, 19200, 38400 bps
- · Parity bit: NONE, ODD, EVEN

Recorder Settings

GateDX-P allows simultaneous connection with any combination of 16 DX100p/DX200Ps.

The user must enter the following recorder settings.

- · Port (COMx or Ethernet)
- Address number (if a COM port using RS-422-A/485 is selected)
- IP address or host name (if Ethernet is selected for the port)
- · User name (if Ethernet is selected for the port)
- User ID (if Ethernet is selected for the port)
- · Password (if Ethernet is selected for the port)
- · Automatic Model Determination

If communication settings are entered correctly, the models, number of measurement channels, and number of computation channels are identified by the software.

Scan Interval

A scan interval from 0.5 to 3600 seconds is selected for each of the 16 DX100P/ DX200Ps.

Note

When connecting to DAQLOGGER and acquiring data from the DX100P/DX200P, if GateDX-P's scan interval is longer than that of DAQLOGGER, DAQLOGGER logs the same data repeatedly until the next Gate-DXP scan interval. Therefore, it is recommended that GateDX-P's scan interval be set to a value smaller than DAQLOGGER's scan interval.

Communication Retry

Using the Configurator, you can turn communication retry ON and OFF, and set the retry interval

When Communication Retry Is OFF

After detecting that communications were cut, no attempts are made to reconnect.

When Communication Retry Is ON

After detecting that communications were cut, the software attempts to reconnect after the retry interval has elapsed. Even if the reconnection resulted in an error, the software waits again for the retry interval to elapse, then attempts another reconnection. This process repeats until a valid connection is opened. A communication retry interval of 30 to 3600 seconds can be entered.

·

Note:

GateDX-P considers communications to have been cut in the following circumstances.

- If the executable function requests data from a DX100P/DX200P but no response is received within 10 seconds.
- f the software detects that the TCP/IP connection was dropped when the executable function is connected to the DX100P/DX200P via Ethernet.

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Port Settings

GateDX-P uses the following ports.

Monitor Server Port

The TCP/IP port number used for communication with DAQLOGGER or Remote Monitor.

Running/Stopping the Executable Function

The user interface allows you to start and stop the executable function.

The executable function runs under one of the following two methods or "types."

· Process Run/Stop

The executable function is run/stopped as a process.

Service Run/Stop

The executable function is registered as an automatically executing service, then run. After an executable function running as a service is stopped, its registration as a service is deleted. As indicated by the service execution status, the executable function continues processing even when the user has logged off of Windows. Also, the software is automatically run as a service when the computer is turned ON. Service execution can only be specified by users with Administrator privileges. Services cannot be executed when using Windows Vista.

Monitor Server Function of the Executable Function

When the executable function is running, you can connect from DAQLOGGER or Remote Monitor via Ethernet using the remote monitor protocol, and acquire data. In this case, system numbers are assigned as follows:

DX100P/DX200P assigned to Recorder1: system number 0 DX100P/DX200P assigned to Recorder2: system number 1

Executable Function Status Display

The user interface allows you to display status items for the executable function.

The information that can be displayed is as follows:

- · Practice status (stopped, running as a service, running as a process)
- Connection status from the client
 Displays a list of PCs running DAQLOGGERS and Remote Monitors with which the
 executable software has opened a connection.

Group and Channel Assignments

When connected to GateDX-P using Remote Monitor, the initial status of group and channel assignments are as follows:

	Group Name	Waveform Number	Channel Assignment
Group 1	Measure Ch	W01	CH01
		•••	•••
		W30	CH30
Group 2	Math Ch	W01	CH31
		•••	•••
		W30	CH60

Note

When connecting DAQLOGGER to Gate-DXP, group and waveform assignments are ignored.

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Channel Names, Tag IDs, and Tag Names

When connected to GateDX-P using Remote Monitor, the channel names, tag IDs, and tag name assignments are as follows:

DX100P/DX200P Channel	Channel Name	Tag ID	Tag Name
CH01	CH01	CH01	DX100P/DX200P tagname
•••	•••	•••	•••
CH60	CH60	CH60	DX100P/DX200P tag name

Note -

When connecting DAQLOGGER to Gate-DXP, channel names and tag IDs are ignored. You can download tag names using tag setting software.

Channel Colors

The default channel colors on GateDX-P are those specified on the connected DX100P/ DX200P.

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3.3 Error Messages and Corrective Actions

Error

No.	Message	Corrective Actions
E211	Cannot write to file.	Check if the disk capacity is sufficient or if the file systems is
E212	Cannot read file.	normal.
EZIZ	Cannot read file.	Check if the file exists and is supported by the software or if the
E213	Canadana fila	file system is normal.
E213	Cannot open file.	Check if the file exists and is supported by the software or if the file system is normal
E401	Communication error.	Check if the recorder connected for communication is powered on
⊑ 401	Communication error.	and if the cable is properly connected. Also check the following
		items according the the communication type.
		• For Ethernet
		Check if address settings are correct; the TCP/IP protocol is
		installed in Windows; the Ethernet card is properly installed.
		• For RS-232 and RS-422-A
		Check if the baud rate settings match; the port (COM1 to COM9)
		settings match, the address settings are correct (RS-422-A); the
		settings match, the address settings are correct (NS-422-A), the serial port of the PC is active and the appropriate cable is being
		used.
E402	Communication timeout.	-
E403	Cannot open a communication port.	Same as E401.
E501	Invalid license number.	
	Please reinstall the software.	
E1001	Login error.	Check the user name, user ID, and password on the DX-P.
E1002	Invalid password.	-
E1003	Password is not valid.	-
E1004	Password expired.	-
	Please set up a password again on the DX-P.	
E1010	Execution of aprocess failed.	Check whether an executable function exists, or whether its
		files are damaged. If this error appears frequently, reinstall the
		software.
E1011	Execuition of a service failed.	Check whether an executable function exists, or whether its
		files are damaged. If this error appears frequently, reinstall the
		software.
E1012	Login prohibited because another user is	-
	logged in.	

Message

No.	Message
M1201	Model determination was successful.
M1210	Setting changes saved before execution.

Executable Function Messages

No.	Message	Corrective Actions
W[631]	Data Lack	Reduce the number of acquired data points or connected
		instruments, or lengthen the scan interval.
E[673]	Cannot open communication	Same as E401.
E[674]	Communication error	Same as E401.
E[675]	Communication time out	Same as E401.
E[700]	Cannot login	Same as E1013.
E[701]	Cannot Get DXP inoformation	Check whether the communication status and connected instruments matches those specified in the software. If they do not, perform model determination again.
I[606]	Recovery Communication	Connection recovered.

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