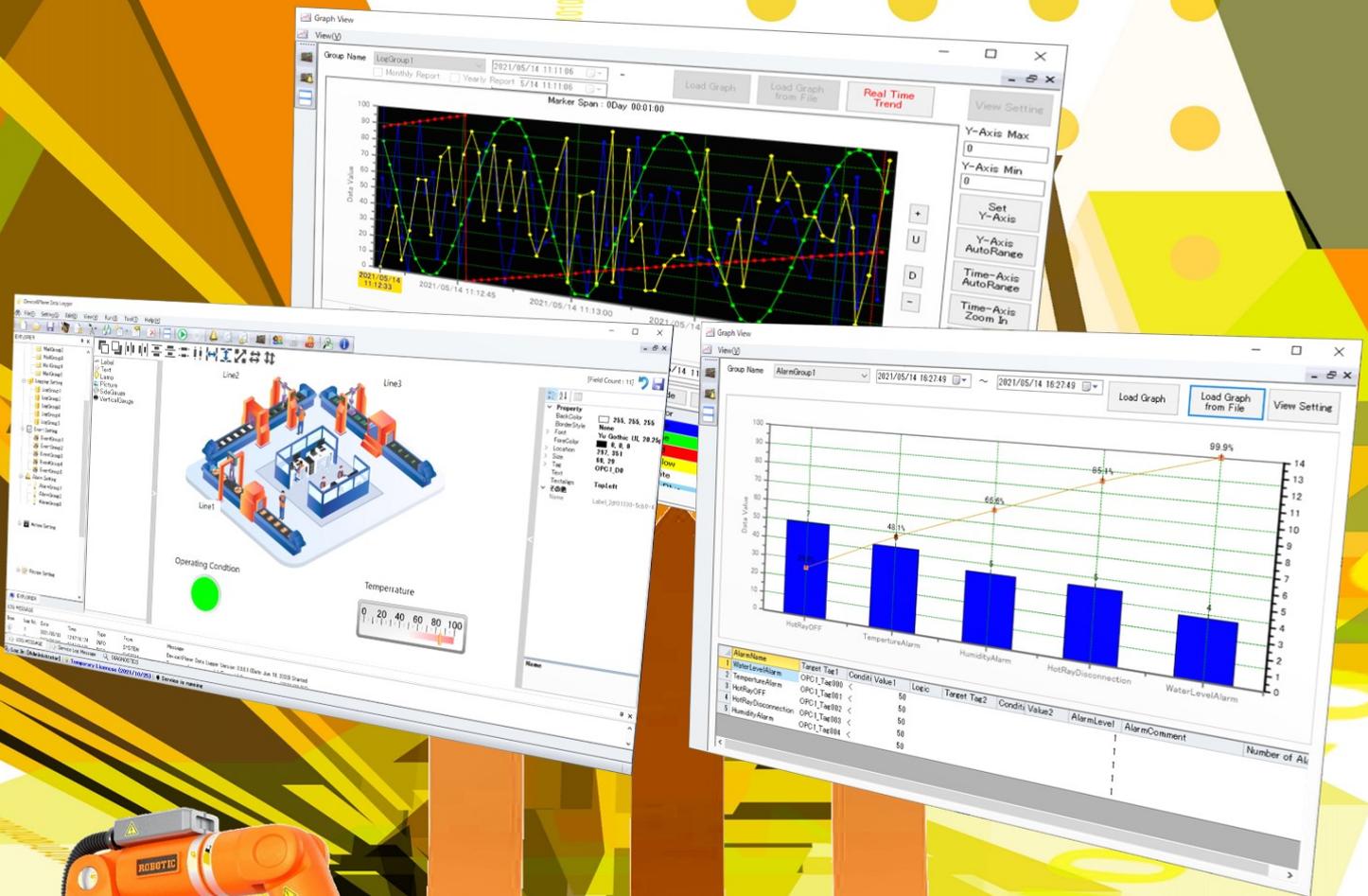


# Dxp LOGGER



# Logging and monitoring data of production sites

Access to data of various equipment

By using it together with the DeviceXplorer® OPC Server and DeviceGateway®, it is possible to collect data of multi vendor equipment such as PLC.

3 steps setup

Data can be easily collected and monitored in 3 steps (Server setting, Collect data setting, Logging setting).

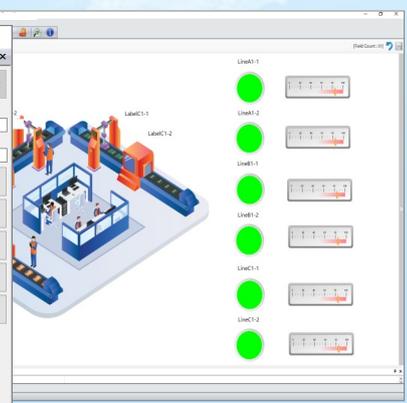
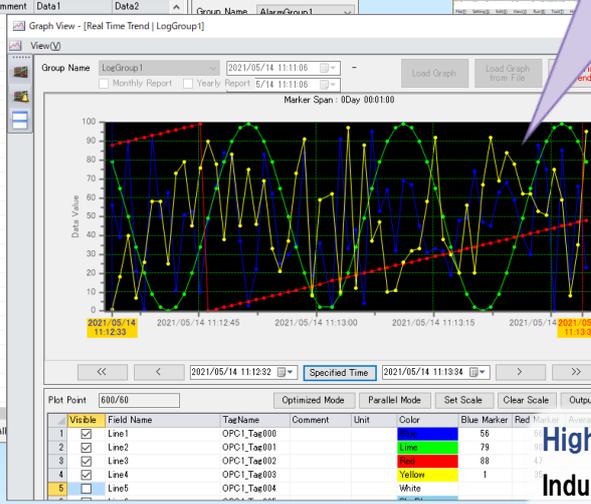
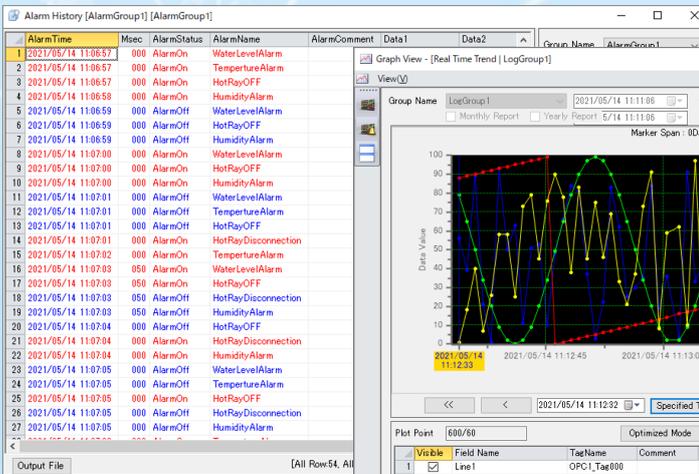


CSV file



Database

## Dxp LOGGER



High quality system

Industry standard OPC is used for the communication system and it is constructible highly scalable and reliable systems.

## OPC UA

DeviceXplorer®  
OPC Server

DxpSERVER



DeviceGateway®

Device Gateway

Vendor specific network

Ethernet

Serial

Production sites



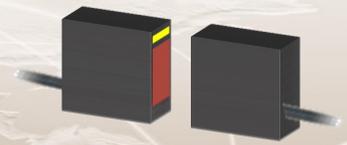
Machine tools



Control devices



Robots



Sensors

## Ver.3 new function

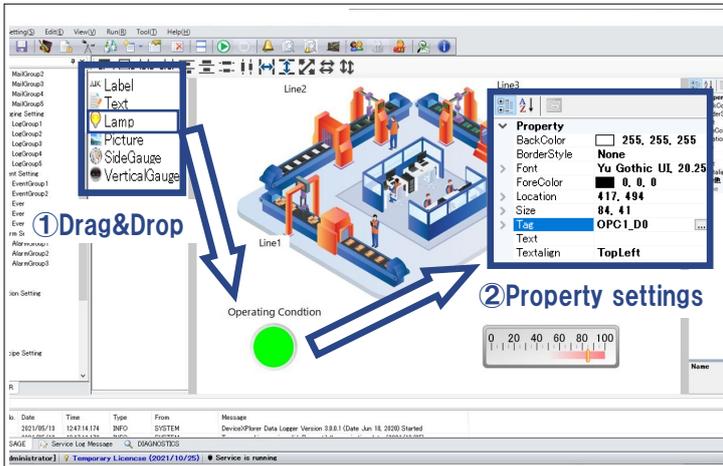
### Simple monitor function

**NEW!!**

(Enterprise Only)

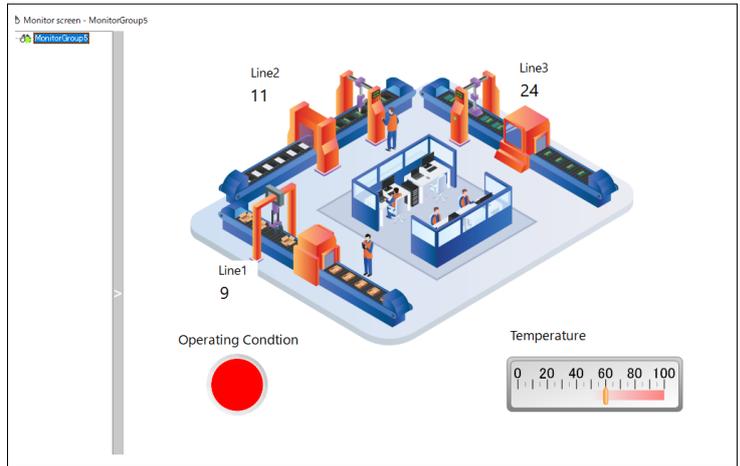
Items such as labels, lamps, and gauges can be placed on the screen to monitor equipment data in real time.

#### Maker



Easy item placement by dragging and dropping

#### Viewer



Real-time monitoring

### Graph enhancement

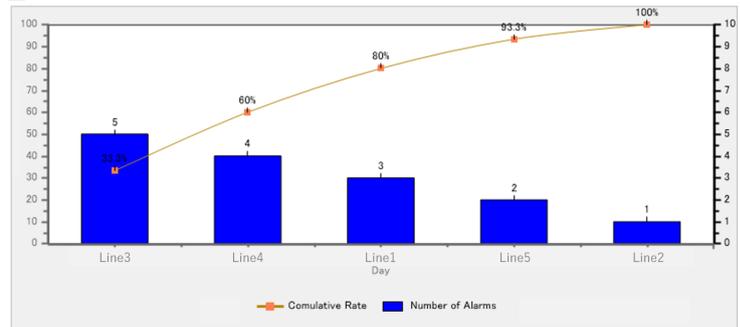
**NEW!!**

The graph function has been enhanced by adding operation graphs, pareto charts, pie charts, and stacked bar charts. It can be used to improve quality by identifying problems and understanding their causes.

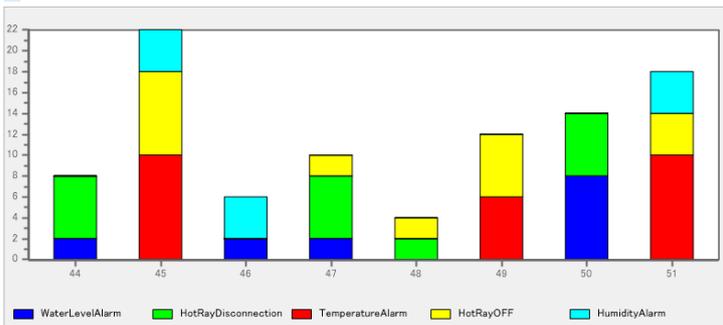
#### Operation graph



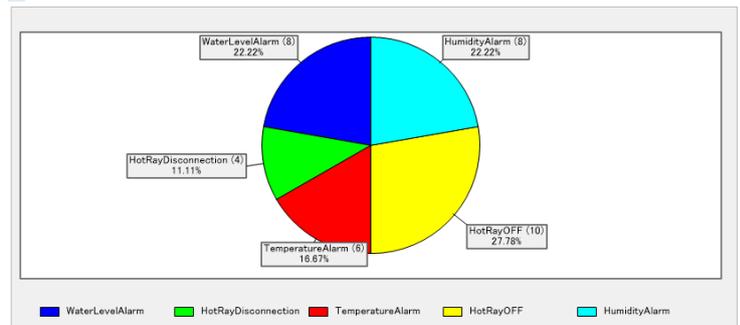
#### Pareto chart



#### Laminated bar graph



#### Pie chart



### Service application support

**NEW!!**

Data collection runs in the background as a service application. Data can be collected without logging on to Windows.

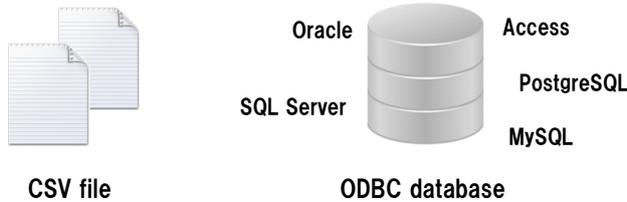
# OPC UA support da DeviceXplorer

## Data Logging

### ● Supporting variety of database

Logging data can be saved CSV file or various database of SQL Server, Access, MySQL, Oracle and PostgreSQL through ODBC driver.

You can select INSERT or UPDATE command when saving data.



### ● Supporting Cloud database

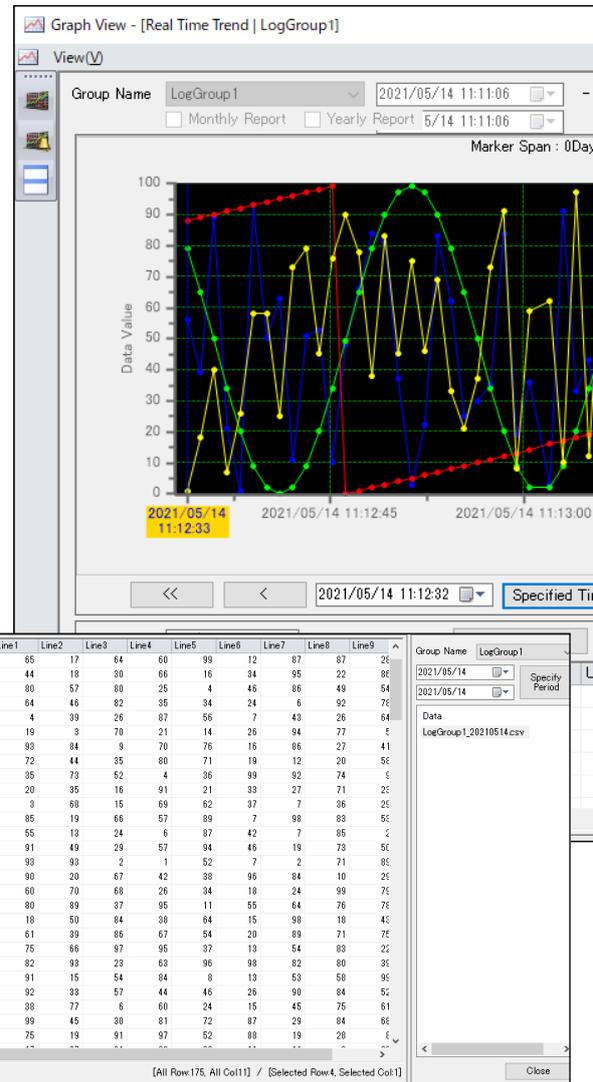
This logging can be realized in PaaS type databases such as Windows Azure and Amazon Web Services. Data logging which are cooperated with a cloud database

### ● Logging at optimal speed

Periodic Logging and Event Logging from PLC trigger are supported. It is possible to set the collecting period for each group, so that the network load can be taken into consideration.

### ● Preventing for loss collected data

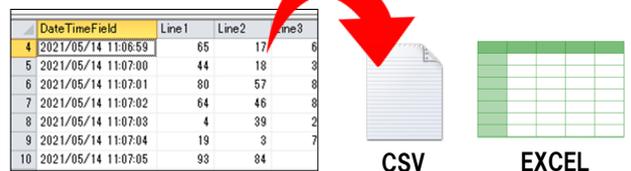
Even if connection with the storage location is lost, collected data is buffered in a local disk. Buffered data will be written to the storage location when the connection is restored.



## Displaying Data

### ● Spread sheet

By searching with specified data, transition of collected data can be displayed on time series. Necessary data can also be extracted by filtering display condition to displayed data.



Displayed data is enable to output to CSV file or EXCEL.

## Action

### ● Batch File/Periodic/FTP

You can set various actions. (Batch file processing that performs the execution function of the user program, Fixed-cycle writing processing used for heartbeats, FTP function to transfer files) .

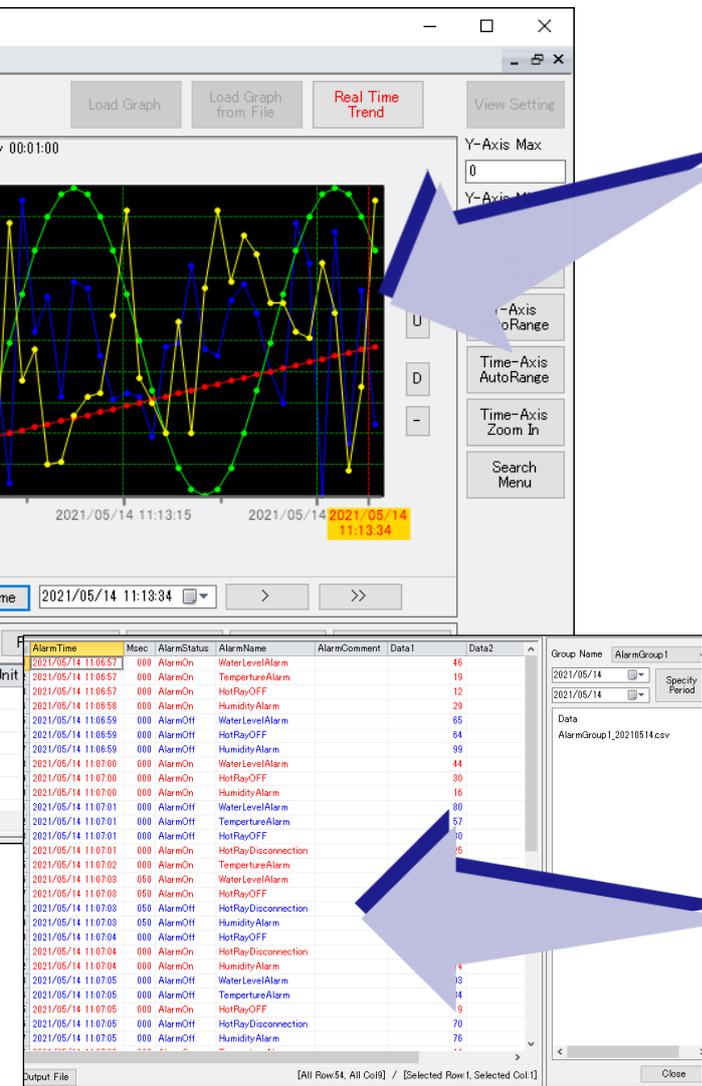
## Multilingual display

### ● Supporting 3 languages

Display language can be switched to Japanese, English, and Chinese, so it can be used for overseas system project.



## Data logging software Data Logger



### Trend graph

#### Historical trend graph

Status transition can be displayed graphically. You can specify the color of the target data, calculate average, minimum, and maximum values, expand the display range, and many other settings.

#### Trend graph

Collecting data is enabled to trend-monitor in real time. It can trend-display in any period.

#### Optimizing trend graph

Intuitively easy-to-understand graph display is possible. By switching to a logarithmic graph, you can also check the vacuum degree and decibel value at a glance.

### Alarm monitoring

#### Displaying Alarm

Alarm conditions can be defined flexibly with combination of threshold judgment, comparison conditions, and logical expressions.

In addition to the current alarms, you can specify a date in the calendar and view a list of past alarms

#### E-mail Notification

In the event of an alarm, you can be notified by e-mail, which This helps to reduce downtime.

You can register multiple Email destinations and share the status of equipment in real time.



### Reporting

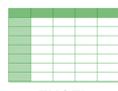
2021/04/27 10:00 - 2021/04/28 10:00

Daily\_Report

Date/Time	Pressure	FlowRate A	FlowRate B	FlowRate C	FlowRate D	WaterLevel 1	WaterLevel 2	WaterLevel 3
2021/04/27 10:00:00	10	20	30	40	50	60	70	80
2021/04/27 11:00:00	11	21	31	41	51	61	71	81
2021/04/27 12:00:00	12	22	32	42	52	62	72	82
2021/04/27 13:00:00	13	23	33	43	53	63	73	83
2021/04/27 14:00:00	14	24	34	44	54	64	74	84
2021/04/27 15:00:00	15	25	35	45	55	65	75	85
2021/04/27 16:00:00	16	26	36	46	56	66	76	86
2021/04/27 17:00:00	17	27	37	47	57	67	77	87
2021/04/27 18:00:00	18	28	38	48	58	68	78	88
2021/04/27 19:00:00	19	29	39	49	59	69	79	89
2021/04/28 00:00:00	20	30	40	50	60	70	80	90
2021/04/28 01:00:00	21	31	41	51	61	71	81	91
2021/04/28 02:00:00	22	32	42	52	62	72	82	92
2021/04/28 03:00:00	23	33	43	53	63	73	83	93
2021/04/28 04:00:00	24	34	44	54	64	74	84	94
2021/04/28 05:00:00	25	35	45	55	65	75	85	95
2021/04/28 06:00:00	26	36	46	56	66	76	86	96
2021/04/28 07:00:00	27	37	47	57	67	77	87	97
2021/04/28 08:00:00	28	38	48	58	68	78	88	98
2021/04/28 09:00:00	29	39	49	59	69	79	89	99
2021/04/28 10:00:00	30	40	50	60	70	80	90	100
2021/04/28 11:00:00	31	41	51	61	71	81	91	101
2021/04/28 12:00:00	32	42	52	62	72	82	92	102
2021/04/28 13:00:00	33	43	53	63	73	83	93	103
2021/04/28 14:00:00	34	44	54	64	74	84	94	104
2021/04/28 15:00:00	35	45	55	65	75	85	95	105
2021/04/28 16:00:00	36	46	56	66	76	86	96	106
2021/04/28 17:00:00	37	47	57	67	77	87	97	107
2021/04/28 18:00:00	38	48	58	68	78	88	98	108
2021/04/28 19:00:00	39	49	59	69	79	89	99	109
2021/04/28 20:00:00	40	50	60	70	80	90	100	110

#### Auto Printing

Daily/Monthly/Yearly reports can be printed automatically. Reports can be confirmed by preview function, printed out and saved as EXCEL or PDF format.



### Recipe

#### Poke production instruction data at once

Recipe data can be written to production equipment at once, subject to trigger signals.

Production instructions are possible for each recipe data.

File(E) Setting(S) Edit(E) View(V) Run(R) Tool(T) Help(H)

PLOLER

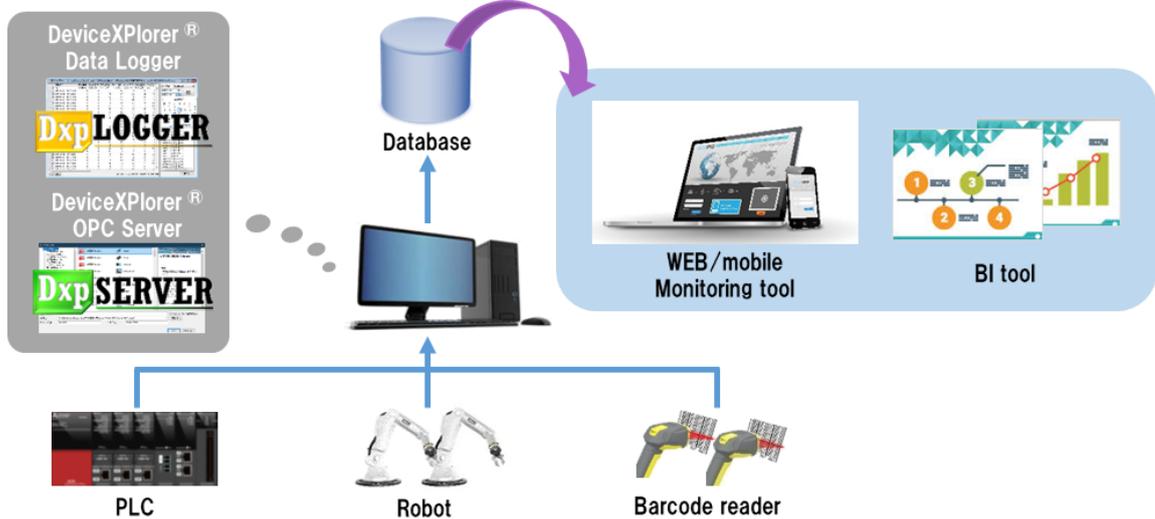
Recipe Tag Count 100 Recipe Count 20 Modify

TagName	Recipe Value1	Recipe Value2	Recipe Value3	Rec
1 PressureA	100	1000	2100	220
2 PressureB	200	2000	3100	320
3 WaterLevel1	10	35	50	65
4 WaterLevel2	100	350	500	650

# Case Study

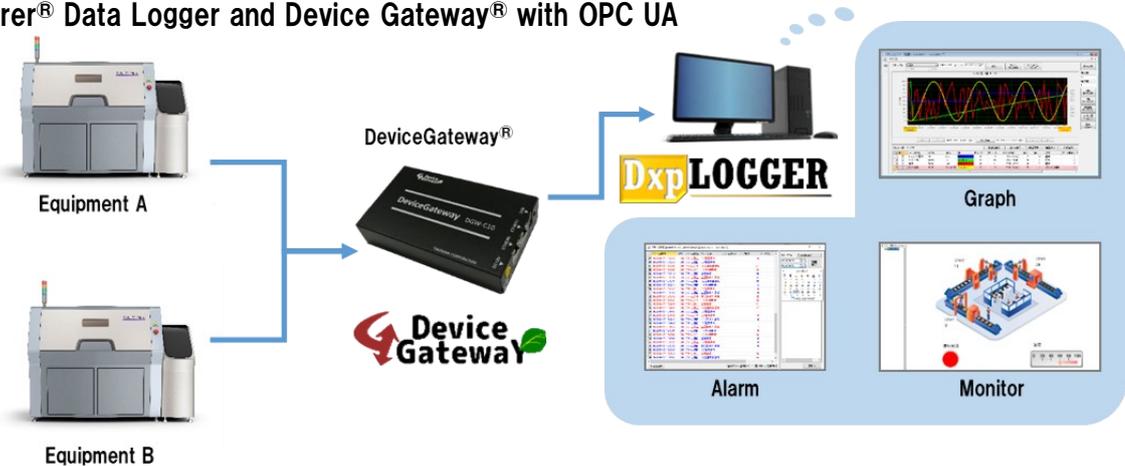
## Data Logging

- Combine Device XPlorer® Data Logger with Device XPlorer® OPC server to store data in the database
- Visualization/Analysis of equipment in combination with BI tools



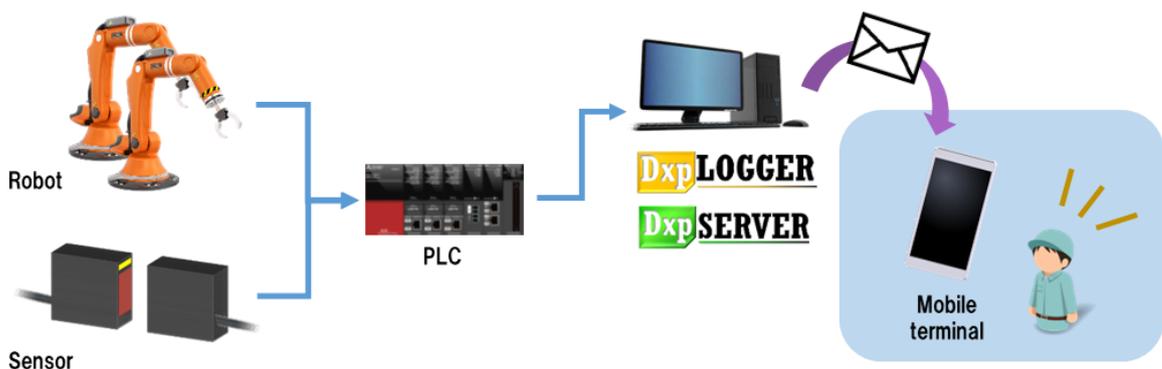
## Facility monitoring

- Monitors equipment operating status in real time through monitor functions, graphs, and alarms
- Realization of high security communication by connecting DeviceXPlorer® Data Logger and Device Gateway® with OPC UA



## Alarm and Mail function

- List abnormal conditions through alarm summary and alarm history
- Improve uptime by notifying by e-mail when an alarm occurs/recovers



## Specification

Classification	Content
OS *1	Windows10 (21H2) *1/Windows10 IoT Enterprise/Windows 10 Enterprise LTSC 2019/Windows8.1/Windows7 Windows Server2019/Windows Server2016/Windows Server2012 (R2) / Windows Server 2008 (R2)
Framework	.NET Framework 4.7.2 or later
Interface	OPC DA 2.05A, OPC UA

Classification	Content
Data storage	CSV, ODBC driver compliant database (Microsoft SQL Server, Microsoft Access, Oracle Database, PostgreSQL, My SQL, Firebird etc.) Microsoft Azure SQL Database, Amazon RDS (Microsoft SQL Server, Oracle, PostgreSQL, MySQL)
Application Type *2	32bit Application (Win32/x86) , 64bit Application (Win64/x64)

\*1 In Home Edition, Windows Update type is fixed "Current Branch (update is performed automatically)".

There is a possibility that not be guaranteed to operate on the OS, so it is recommended Pro Edition or above.

\*2 You can select 32bit application or 64bit application installation. Please refer to the manual for the Details.

## Feature

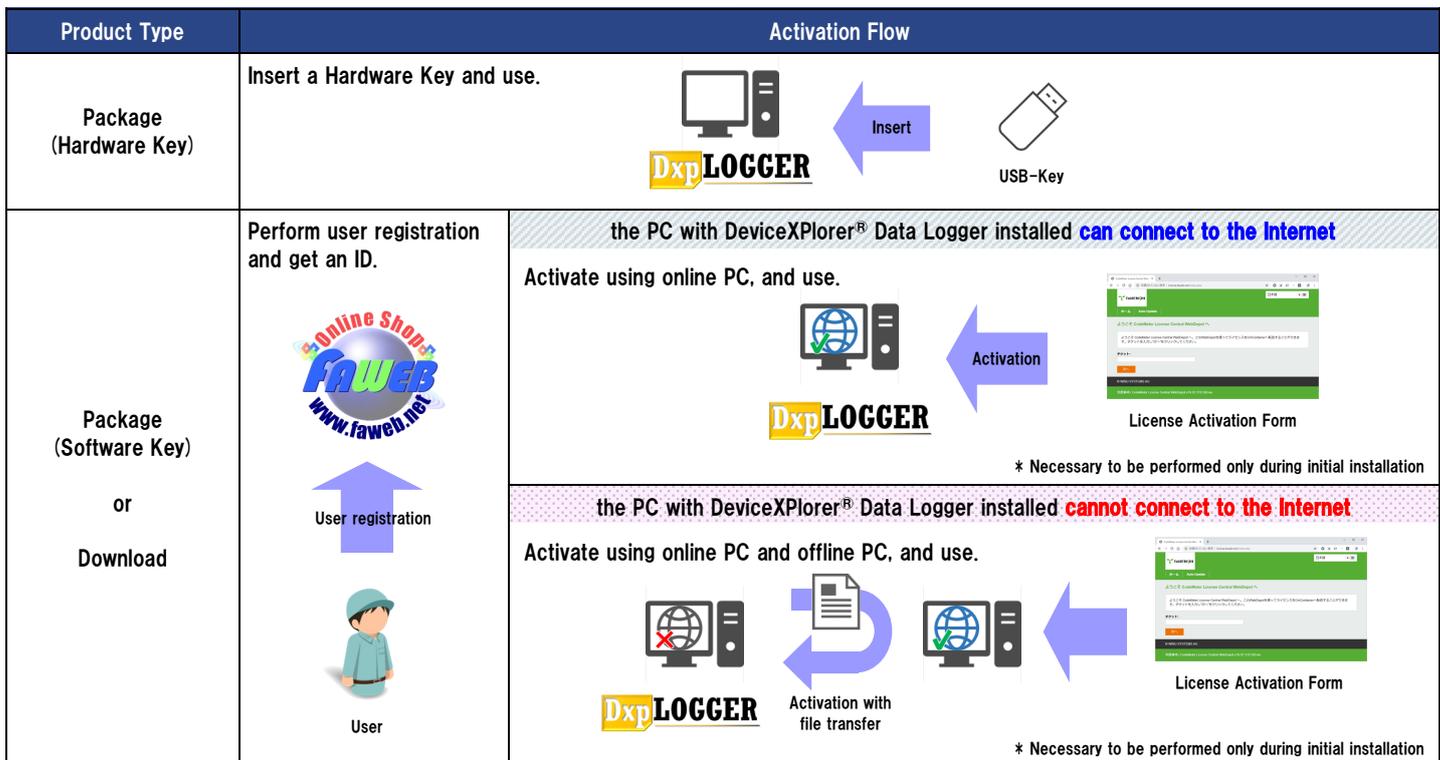
Classification	Item	Content
Standard functionality	Authority	Permission settings configuration
	Diagnostic	Execution status diagnostic, Log message output
	Connectivity	Support 128 OPC servers
	Others	Auto logging, Running in task tray, Wizard setting
Data Logging	Logging	Periodic, event
	Interval	50ms - 24hours
	Limitation points	65,536 (512points * 128groups)
	Type	Binary, BCD, Float, Logarithm, String, Array
	File format	CSV, ODBC (INSERT, UPDATE)
	Primary function	Logging for (periodic, the hour, trigger, event, relative time) handshake, split file, offline buffering, write cache, retention period, aggregation
	Calculation	Engineering, BCD, multiple rate, square root extraction, power factor, Amount of change, logarithm, string table, dead band
Data View	Type	Spread sheet
	Display unit	Each group on date
	Filter	Select Value, Specific range
Mail	Condition	Alarm occurs/recovers
	Number of settings	16 groups (1 groupe * 16 addresses)

Classification	Item	Content
Recipe	Processing	128 groups (Max 30,000Tags, 1,000 recipes)
	Display type	Real time, historical
	Number of graph	64 graphs*1
	Number of line	512 lines (10 million points)
	Type	XY plot, step chart, bar graph, area chart, semi-logarithmic graph, operation graph, pie chart, stacked bar, pareto chart
	Primary function	Optimize, Data search, Scooter bar
	Unit	Each group on date, File designation
Alarm	Export	Printing, Various export file (Image, CSV, XLS)
	Monitoring interval	50ms - 24hours
	Monitoring points	128K points (1,024points * 128groups)
	Type	Alarm summary, Alarm history
	Condition	Value range, Comparison of data
	Contents	Alarm occur/restoration date and time, Data values, Comment, Alarm level, Audio playback
Action	Execution process	Execution program, Write value, FTP
	Number of process	128 groups (1 program and 10 values writing)
	Type of write value	Heartbeat signal, Increment, Decrement, Fixed value, Date and time
Simple Monitor*2	Processing	16 groups (1 group * 128 points)
	Contents	Write Value

\*1 Up to 64 graphs can be displayed simultaneously in a 64bit application, and up to 16 graphs can be displayed in a 32bit application.

\*2 Only available in the Enterprise Edition.

## License Activation Flow



## How to read model code

DXPLOGV3 **A** - **B** - **C** - **D**

<b>A</b>	Edition	<b>EP</b> :Enterprise <b>ST</b> :Standard
<b>B</b>	Product Type	<b>HW</b> :Package (Hardware Key) <b>SW</b> :Package (Software Key) <b>DL</b> :Download
<b>C</b>	Upgrade	<b>Unspecified</b> :Normal product <b>V</b> :Version upgrade <b>CH</b> :Enhanced upgrade
<b>D</b>	Language	<b>Unspecified</b> :Japanese <b>E</b> :English

## Lineup

### Enterprise Edition

Product Name	Product form	Model	Remarks
DxpLOGGER V3 Enterprise	Package (Hardware Key)	DXPLOGV3EP-HW-E	Simple monitor function available
	Package (Software Key)	DXPLOGV3EP-SW-E	
	Download	DXPLOGV3EP-DL-E	
DxpLOGGER V3 Enterprise Version Up *1	Package (Hardware Key)	DXPLOGV3EP-HW-V-E	Upgrade to the latest version
	Package (Software Key)	DXPLOGV3EP-SW-V-E	
	Download	DXPLOGV3EP-DL-V-E	
DxpLOGGER V3 Enterprise Enhance upgrade	Package (Hardware Key)	DXPLOGV3EP-HW-CH-E	Upgrade to Enterprise Edition from Standard Edition.
	Package (Software Key)	DXPLOGV3EP-SW-CH-E	
	Download	DXPLOGV3EP-DL-CH-E	

### Standard Edition

Product Name	Product form	Model	Remarks
DxpLOGGER V3 Standard	Package (Hardware Key)	DXPLOGV3ST-HW-E	Simple monitor function not available
	Package (Software Key)	DXPLOGV3ST-SW-E	
	Download	DXPLOGV3ST-DL-E	
DxpLOGGER V3 Standard Version Up *1	Package (Hardware Key)	DXPLOGV3ST-HW-V-E	Upgrade to the latest version
	Package (Software Key)	DXPLOGV3ST-SW-V-E	
	Download	DXPLOGV3ST-DL-V-E	

\*1 At the time of minor version upgrade, each product can be upgraded free of charge by applying a patch. However, if you have purchased the package version, you can upgrade the package version free of charge only once within 18 months after purchase. Please purchase the upgraded product each time after 18 months or more. Minor version upgrades are for upgrades after the decimal point, such as Ver3.0 to Ver3.1. It will be a major version upgrade from Ver2.x to Ver3.x. Please purchase an upgraded version.

## Related Products

 <p><b>DeviceXplorer® OPC Server</b> Industrial communications Software (Windows)</p>  	 <p><b>DeviceGateway®</b> Data Access Unit for IoT</p>  
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Japan local time



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