General Specifications

Model VP6H6710 FCS Data Setting/Acquisition Package (PICOT)

CENTUM VP

GS 33J05J30-01EN

[Release 6]

■ GENERAL

The FCS Data Setting/Acquisition Package, or Process Information Controller (PICOT) is used to set and send the data defined in Microsoft Excel spreadsheets on a Human Interface Station (HIS) to function blocks of a Field Control Station (FCS).

Combining sequence table blocks and unit instruments with this package, you can configure a simple recipe management system. This package can also be used to set multiple data to function blocks at the same time - for pneumatic transportation systems, and for setting multiple alarm values simultaneously, for example.

■ FUNCTION SPECIFICATIONS

This package runs on the HIS. Triggered by supervisory computer message output for PICOT (%M3) from FCS, it conducts a series of user-defined sequence processes corresponding to message numbers. It is possible to trigger the package from other programs.

The package features:

- Write/read the process data of the function blocks
- Set/check internal switches
- Execute Microsoft Excel spreadsheet macros
- Start other programs

These operations are defined (sequence process definition) and data files are defined and read on Microsoft Excel spreadsheets. The figure below shows how the package runs.
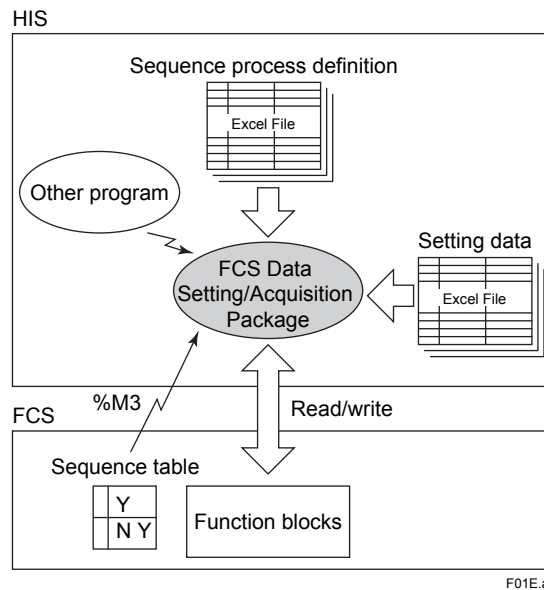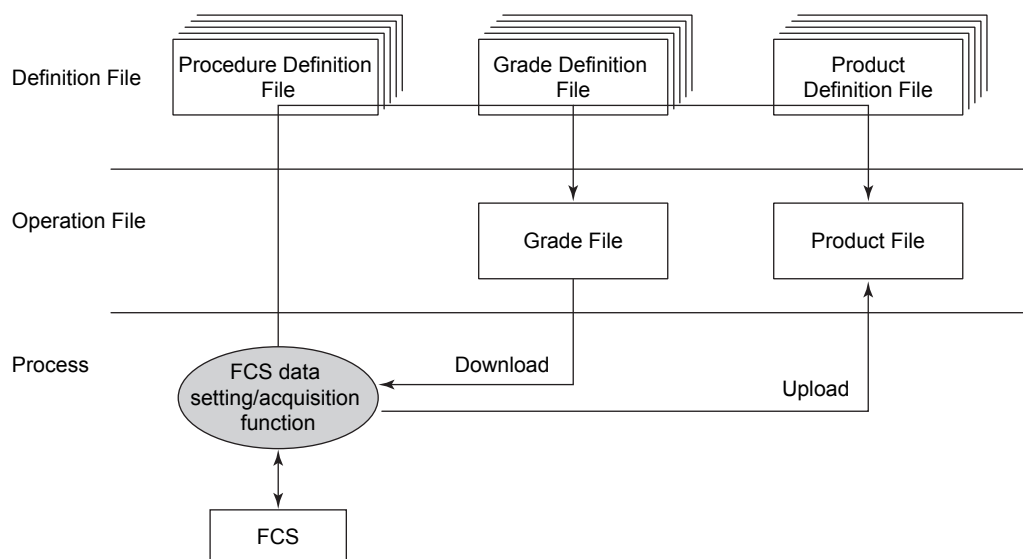

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Any function block data may be uploaded and downloaded. When running the package on multiple HISes, master/backup data can be managed by simple definition.

■ CONFIGURATION

The package consists of definition files, operation files and processes.

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Definition Files

There are three types of Excel files used as Definition Files, which define the operation of the package.

- **Procedure Definition File**
  The command definitions are stored in this file. A file is prepared for each message number.
  The "DOWNLOAD", "UPLOAD", "GRADESET", "GRADEID", "PRODUCTSET", "PRODUCTID", "SETTIME", "CHKFLAG" and "SETFLAG" commands can be used.

Enter commands (operation definition).

Enter operations by commands.

Prc0001S0101.xlsx

	A	B	C	D	E
1	Num	Command	Arg1	Arg2	Arg3
2	1	GRADESET	0001		
3	2	PRODUCTSET	0001		
4	3	DOWNLOAD	Buf01		
5	4	DOWNLOAD	Buf02		
6	5	DOWNLOAD	Buf03		
7	6	DOWNLOAD	Buf04		
8	7	DOWNLOAD	Buf05		
9	8	DOWNLOAD	Buf06		
10	9	DOWNLOAD	Buf07		
11	10	DOWNLOAD	Buf08		
12	11	DOWNLOAD	Buf09		
13	12	SETFLAG	%SW1000S0101	PV	1
14	13	UPLOAD	Tag01		
15	14	UPLOAD	Tag02		
16	15	UPLOAD	Tag03		
17	16	UPLOAD	Tag04		
18	17	UPLOAD	Tag05		
19	18	UPLOAD	Tag06		
20	19	UPLOAD	Tag07		
21	20	UPLOAD	Tag08		
22	21	UPLOAD	Tag09		
23	22	UPLOAD	Tag10		
24		END			
25					

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- **Grade Definition File**
  The tag names, data items and data of function blocks you want to download are defined in this file.

Range of data belonging to one group
Downloaded group name which is specified on the procedure definition file
Downloaded function block tag name
Downloaded data type
Data downloaded to function block or element

Gdf0001.xlsx

	A Group	B Tag	C Item	D Value	E Min	F Max	G Comment
2	Buf01	BD001	DT01	30	10	90	Commen1
3			DT02	46	10	90	Commen2
4			DT03	52	10	90	Commen3
5			DT04	40	10	90	Commen4
6			DT05	12	10	90	Commen5
7			DT06	85	10	90	Commen6
8			DT07	77	10	90	Commen7
9			DT08	66	10	90	Commen8
10			DT09	33	10	90	Commen9
11		UNIT01	USR1[2,3]	29	10	90	Commen10
12			USR3[1]	20	10	90	Commen11
13			USR4[3]	20	10	90	Commen12
14			USR5	69	10	90	Commen13
15		FIC0001	PV	45	10	90	Commen14
16	Buf02	BD002	DT01	72	10	90	Commen15
17			DT02	51	10	90	Commen16
18	END						

Sheet1 Sheet2 Sheet3 Sheet4

Must finish with End definition

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- **Product Definition File**
  The tag names and data items of function blocks you want to upload are defined in this file.

Uploaded group name which is specified on the procedure definition file
Uploaded function block tag name
Uploaded data type
Save area of uploaded data

Range of data belonging to one ID

Pdf0001.xlsx

	A ID	B Tag Name	C Item	D Value	E	F
2	Tag01	BD001	DT01			
3			DT02			
4			DT03			
5			DT04			
6			DT05			
7			DT06			
8			DT07			
9			DT08			
10			DT09			
11			DT10			
12			DT11			
13			DT12			
14			DT13			
15			DT14			
16	Tag02	BD002	DT01			
17			DT02			
18	END		DT03			

Sheet1 Sheet2 Sheet3 Sheet4

Must finish with End definition

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Operation Files

There are two types of Excel files used as Operation Files, which are automatically created by the package.

- **Grade File**
  This is a copy of the Grade Definition File, which is automatically deleted upon end of process.
- **Product File**
  This file stores the uploaded data. The data gathered from the copy of the product definition file are stored in this file. Even after the procedure is completed, this file will remain as long as the user does not delete it. If a file with the same name already exists, the new data will append to the existing file according to their tag names and data item names, not replace the existing data.

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■ OPERATING ENVIRONMENTS

Hardware requirements
Conforms to operating environment of VP6H1100 Standard Operation and Monitoring Function.

Software requirements
Conforms to operating environment of VP6H1100 Standard Operation and Monitoring Function.
Refer to VP6H1100 Standard Operation and Monitoring Function package (GS 33J05D10-01EN) software requirements for the supported versions of Microsoft Excel.

Necessary Software:
VP6H1100 Standard Operation and Monitoring Function (If VP6H6710 is used)
VP6H2411 Exaopc OPC Interface Package (for HIS)
Microsoft Excel (*1)

*1:   Microsoft Excel start up every time this package receives a supervisory computer message output for PICOT (%M3) from FCS.
Timing and performance vary in data setting and acquisition depending on computer performance. Check them out on the Target PC.

■ MODEL AND SUFFIX CODES

			Description
Model	VP6H6710		FCS Data Setting/Acquisition Package (PICOT)
Suffix Codes	-V		Software license
	-E		For Expansion
	1		Always 1
		1	English version
		N01	For Small/Middle Scale Project
		N03	For Large Scale Project
		N13	For Project Scale Expansion

Note: When ordering this license newly, be sure to select '-V', and 'N01' or 'N03' as a project scale in the suffix codes.
Note: When expanding the project scale, select '-E' and 'N13' in the suffix codes.
Note: VP6H2411 Exaopc OPC Interface Package (for HIS) is required.
Note: To use this package, Microsoft Excel must be installed in advance.

■ ORDERING INFORMATION

Specify model and suffix codes.

■ TRADEMARKS

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