

General Specifications

Model NT301AJ Report Package



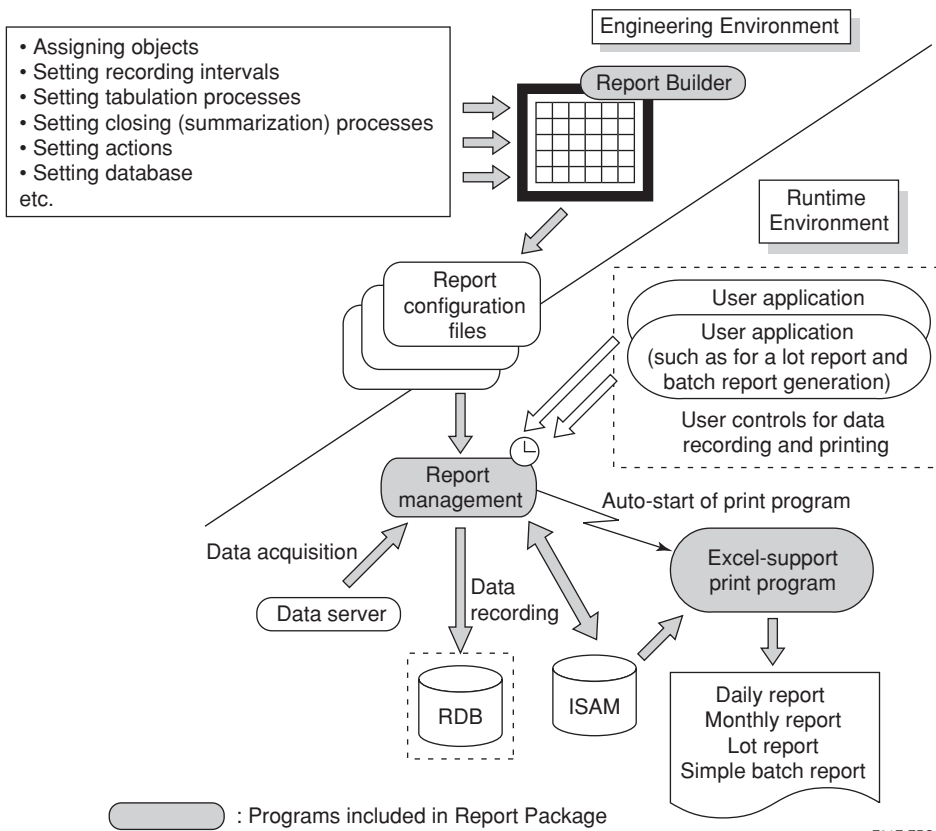
GS 34P02H01-01E

■ GENERAL

The Report Package provides functions to periodically acquire values held in control objects that reside in a data server inside Versatile Data Server Software (VDS) or an ASTMAC (*1) system, store those values to an indexed sequential access method (ISAM) file, generate reports of an Excel sheet based on the acquired values, and print them. In place of an ISAM file, data can be stored to a relational database (RDB) file.

The Report Package can tabulate and process the acquired data when storing it to a data file to allow efficient generation of daily, monthly, lot, and simple batch reports.

*1: ASTMAC is Japanese domestic market only (Not sales for overseas).



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■ SYSTEM REQUIREMENTS

The system requirements follow those required for VDS specified in VDS Versatile Database Server Software, GS 34P02A02-01E, or for the ASTMAC base type specified in ASTMAC Overview, GS 34P02A03-01E.

As necessary, the following needs to be prepared.

- To create report formats, you need Microsoft Excel 2000 SP3, Excel 2002 SP2 or Excel 2003.
- When using an RDB rather than an ISAM, you need to set up either of the following client/server configurations:

Oracle

- In the server, Oracle8i Workgroup Server for Windows R8.1.6
- As the client software in the PC running VDS or ASTMAC, Oracle Objects for OLE for Windows R8.1.6 (oo4o; either bundled in the package of Oracle8i Workgroup Server R8.1.6 or a single oo4o package).

Microsoft SQL Server 2000

Both Microsoft ActiveX Data Object (ADO) and SQL OLEDB are needed to connect to SQL Server 2000.

■ GENERAL SPECIFICATIONS

Table Specifications (1/2)

Item	Specification
Data acquisition and recording	Report types Daily report Monthly report Daily and monthly report Lot report Simple batch report
Acquisition blocks	Up to 32 blocks of the report types above. (*1)
Settings of data items to be acquired	Up to 32 data items per acquisition block
Acquisition interval (*2)	Daily report and lot report: Selectable from 1, 2, 5, 10, 30, and 60 minutes. Monthly report: Selectable from 30, 60, and 120 minutes.
Data simultaneity	Guaranteed within the same block
Recording interval	Daily report and lot report: Selectable from 5, 10, 20, 30, 60 and 120 minutes. Monthly report: Fixed to 1 day.
Tabulation at recording (*3)	Daily report, monthly report, and lot report: Maximums, minimums, averages, totals, differential totals, tabulation status, snapshot values Batch report: Instantaneous values at the batch end. Differences of the respective values from the batch start to the end.
Closing (summarization) time	Daily report and simple batch report: 00:00:00 by default; can be changed by 1-hour increments. Monthly report: 00:00:00 on the first day of every month by default; the day can be changed to a desired fixed day, and the time by 1-hour increments.
Tabulation at closing (summarization)	Tabulation of recorded values: Maximums, minimums, averages, totals, and differential totals Tabulation of measured values: Maximum snapshot values, minimum snapshot values, average snapshot values, times of maximum snapshot values, times of minimum snapshot values, ratio of normal values acquired
Data type of acquired data (*4)	Double (double-precision integer)
Acquisition condition properties	The property Cv of a DI object can be specified.
Recording start and end condition	Lot report: Specify the property Cv of a DI object. Specify the method. Simple batch report: Specify the property Cv of a DI object. Specify the method. Specify the closing (summarization) time.
Batch start and end condition	Specify the property Cv of a DI object. Specify the method.
Answerback	Specify the property Cv of a DI object.

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- *1: The total of lot reports and simple batch reports cannot exceed 4.
- *2: For a monthly report, data can be created based on the data recorded for daily reports.
- *3: If the acquisition interval is the same as the recording interval, snapshot values are recorded.
- *4: Each tabulation status is a single character, and the time of a maximum value is a character string (the same for the time of a minimum value).

Table Specifications (2/2)

Item		Specification	
Data files	ISAM	Files and acquisition blocks	Correspond one-to-one to each other.
		Record storage periods (*5)	Daily report: Stored until the daily closing (summarization) time on the next day after the same date in the next year. Monthly report: Stored until the monthly closing (summarization) time in the next month after the same month in the next year. Lot report and simple batch report: Stored until 00:00:00 on the next day after the same date in the next month.
		Indexes	Data records' (lines') properties, report names, and times (year/month/day/time) are indexed. The user can additionally index up to 5 data fields (rows).
	RDB	Tables and acquisition blocks	Correspond one-to-one to each other.
		Connection	Oracle Object for OLE (oo4o) or Microsoft ADO – SQL OLEDB
		Primary key of table	System time
		Saving mode (*5)	Insert (stored for 10 years) Update (the same as ISAM files) (The data of the same report name is updated and stored for 10 years.)
	Report printing (*6)	Print blocks and acquisition blocks	Correspond one-to-one to each other.
Auto-printing		Specify the delay time in minutes (cannot be specified for a lot report or simple batch report).	
Formats		Specify for each report (for each acquisition block) using a template.	
Saving of report blocks		Possible	
Print block macros		Non-protected, disclosed	
Applicable data file types		ISAM	

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*5: The oldest data is overwritten by the latest data.

*6: When using Excel.

REPORT FORMAT EXAMPLES

● Daily Report

Data in specified intervals for a day is tabulated for a report.

Settings

Closing (summarization) time: 0:00; recording interval: 60 minutes

Tabulation at closing (summarization): Computing the maximum, minimum, and average for each data field

Recording start time:
Can be changed by modifying the closing (summarization) time.

Data items:
Up to 32

October 10, 2000

<Comments>		Written by	Checked by	Approved by

	Row Brackish Water Flow	Row Brackish Water Sp. Wgt	Row Material Tank Feed Flow	Heat Intake Temp.	Heat Exhaust Temp.	Topper Feed Flow	Steam Header Flow
	l/h	g/cm ³	l/h	°C	°C	l	l/h
1:00	123.4	567.8	123.4	98.7	98.7	258.1	123.4
2:00	123.4	568.2	123.4	98.7	98.7	258.1	123.4
3:00	124.7	567.8	124.7	98.7	98.7	260.5	123.4
4:00	123.4	567.8	123.4	98.7	98.7	258.1	123.4
5:00	123.4	567.8	123.4	98.7	98.7	258.1	123.5
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
22:00	123.4	566.9	123.4	98.7	98.7	258.1	123.3
23:00	122.1	567.8	123.4	98.7	98.7	258.1	123.4
0:00	123.4	567.8	123.4	98.7	98.7	255.6	123.4
Maximum	124.7	568.2	124.7	98.7	98.7	260.5	123.5
Minimum	122.1	566.9	123.4	98.7	98.7	255.6	123.3
Average	123.4	567.4	123.5	98.7	98.7	258.1	123.4

Recording interval:
Selectable from 5, 10, 20, 30, 60, and 120 minutes.

You can modify a template provided with the Report Package to specify the borders, data names, cell sizes, and font sizes as desired.

Recorded data: Maximums, minimums, totals, and averages can be specified in addition to snapshot values.

Data computed by tabulation at closing (summarization): Totals, the maximum snapshot values, and times of the maximum snapshot values can also be specified in addition to these.

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● **Monthly Report**

Daily data for a month is tabulated for a report.

Settings

Closing (summarization) day: End of every month; recording interval: Fixed to 1 day

Tabulation at closing (summarization): Computing the maximum, minimum, and average for each data field

Report name: Preceding day/month

Recording start day:
Can be changed by modifying the closing (summarization) day.

Data items:
Up to 32

October 2000

<Comments>				Written by	Checked by	Approved by

	Row Brackish Water Flow l/h	Row Brackish Water Sp. Wgt g/cm ³	Row Material Tank Feed Flow l/h	Heat Intake Temp. °C	Heat Exhaust Temp. °C	Topper Feed Flow l	Steam Header Flow l/h
1	123.4	567.8	123.4	98.7	98.7	258.1	123.4
2	123.4	568.2	123.4	98.7	98.7	258.1	123.4
3	124.7	567.8	124.7	98.7	98.7	260.5	123.4
4	123.4	567.8	123.4	98.7	98.7	258.1	123.4
5	123.4	567.8	123.4	98.7	98.7	258.1	123.5
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
29	123.4	566.9	123.4	98.7	98.7	258.1	123.3
30	122.1	567.8	123.4	98.7	98.7	258.1	123.4
31	123.4	567.8	123.4	98.7	98.7	255.8	123.4
Maximum	124.7	568.2	124.7	98.7	98.7	260.5	123.5
Minimum	122.1	566.9	123.4	98.7	98.7	255.6	123.3
Average	123.4	567.4	123.5	98.7	98.7	258.1	123.4

Recording interval: Fixed to 1 day.

You can modify a template provided with the Report Package to specify the borders, data names, cell sizes, and font sizes as desired.

Recorded data: Maximums, minimums, totals, and averages can be specified in addition to snapshot values.

Data computed by tabulation at closing (summarization): Totals, the maximum snapshot values, and times of the maximum snapshot values can also be specified in addition to these.

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● **Simple Batch Report**

Data for batches occurring within the period between the specified start and end times is tabulated for a report. (The data records, however, cannot exceed 512.) Batch data to be recorded are the batch start and end times, snapshot values at each batch end or difference of each value from the batch start to the end.

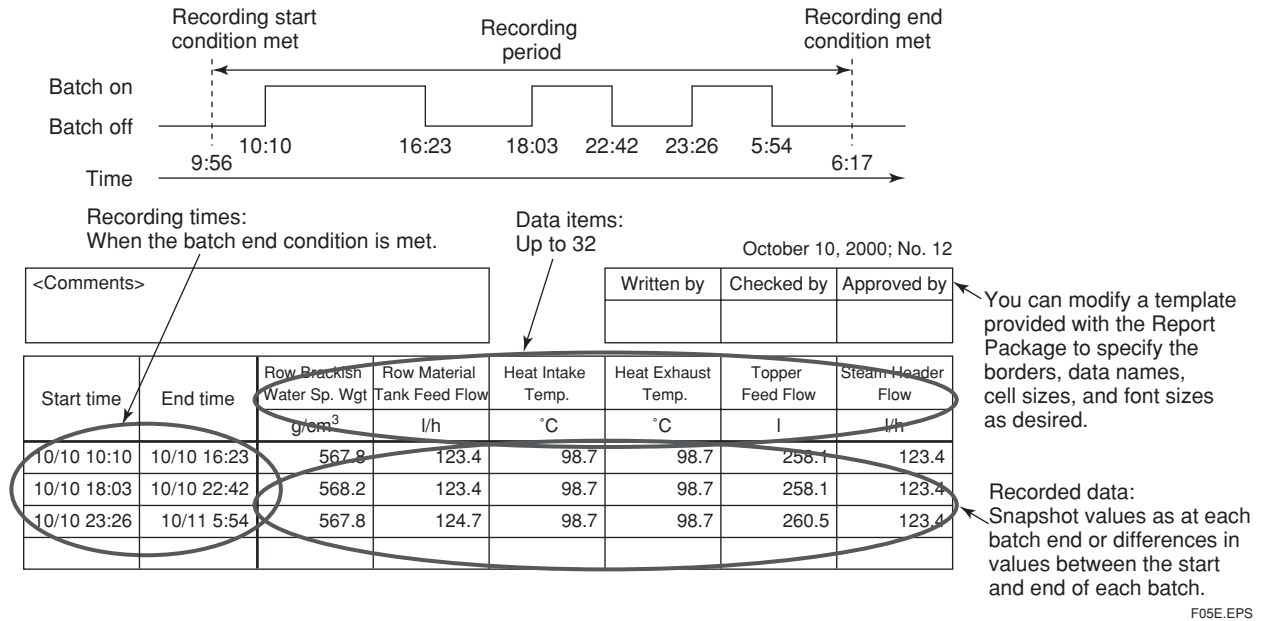
Settings

Recording start and end conditions: Polling (on/off of a DI)

Batch start and end conditions: Polling (on/off of a DI)

Tabulation at closing (summarization): Recording the snapshot value for each data field

(Shown at the bottom is a printout example provided that the recording start/end and batch start/end conditions were met as shown below.)



■ **MODEL AND SUFFIX CODES**

Model	Suffix Code	Description
NT301AJ	-LW11A	Fulltime Report Package
NT301RJ	-LW11A	Runtime Report Package

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■ **ORDERING PROCEDURE**

Specify the model and suffix codes.

■ **RELATED DOCUMENTS**

- VDS, GS 34P02A02-01E
- ASTMAC Overview, GS 34P02A03-01E

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