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[Title] Measures Regarding Year 2000 Problem for GPP
Function and Related Software Packages

[Date of Issue] November '99

[Relevant Models] GPP Function Software Package for GPPA, GPPQ and GPPW
LNKQ Ladder Linking Software Package
LLT Ladder Logic Test Function Software Package, and
GPP Related Software Packages

Thank you for your continued patronage of the Mitsubishi general-purpose PLC MELSEC-FX/A/QnA Series. The year 2000 problems include correctly recognizing the year before the year 1999 and after the year 2000, and compensating the date in a leap year.

We have provided information on the year 2000 problem for the MELSEC-FX/A/QnA Series PLC GPP function software package and related software packages in the Technical Bulletin first issued in October 1998, and the revision Version A issued in July 1999. The details have been partially added and revised, as indicated in this revision Version B.

The symptoms and measures for this software package are described assuming that the personal computer (including OS and driver) is a model compatible with the year 2000. If the personal computer, etc., is not yet compatible with the year 2000, contact the personal computer maker and take measures.

Whereas

[Details]

1. GPPA type GPP function software package

1.1 SW□HX/RX/SRX/SRXV/N/NX/IVD/IX-GPPA, A7MCA□HX-GPPA type GPP function software package

Target models: Japanese Version SW□HX-GPPA, SW□RX-GPPA, SW□SRX-GPPA, SW□SRXV-GPPA,
SW0N-GPPA, SW□NX-GPPA, SW□IVD-GPPA, A7MCA□HX-GPPA
English Version SW□IVD-GPPA-E, SW0IX-GPPA (E)

* A number 0, 1, 2, 3 or 4 is inserted in the □.

(1) Symptom

There is no particular problem regarding the year 2000.

(2) Other precautions for specifications

1) PLC error history display

The date of error occurrence is handled with the "YY.MM.DD" format, and the year is displayed with the last two digits. Thus, the error that occurs in the PLC date year 00 (year 2000) will be displayed as follows. The date is displayed correctly after the error history occurring in the year 1999 and earlier.

Example : January 1, 2000 00.01.01 (YY.MM.DD)



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(3) Operation environment

- 1) Personal computer unit
Contact each personal computer maker for information regarding the year 2000 problem in the personal computer unit.
- 2) Peripheral devices for Mitsubishi PLC
Refer to the Technical Bulletin "T50-0006" for details on the year 2000 problem for the A7HGP type handy graphic programmer and A7PHP type plasma handy graphic programmer.
- 3) Mitsubishi FA controller
Refer to the Technical Bulletin "LMS-E-33" for details on the year 2000 problem for the FA controller MELSEC-LM Series.

1.2 A6GPP/A6PHP/A6HGP SW□(GP), GPPA (U), A6MEM□GP-GPPA (U) type GPP function software package

Target models 1: Japanese Version SW□(GP)-GPPA, A6MEM□GP-GPPA, SW□-HGPA, A6MEM□-HGPA

* A number 0, 1, 2 or 3 is inserted in the □.

English Version SW□(GP)-GPPA-JE (EE/-EG), SW□GP-GPPAU-JE,
A6MEM□GP-GPPAJE (EE), A6MEM□-HGPAJE (EE)

* A number 0, 1, 2, 3, 4 or 5 is inserted in the □.

Target models 2: Japanese Version SW□GP-GPPA, SW□GP-GPPAU, A6MEM□GP-GPPA,
A6MEM□GP-GPPAU

* A number 4 or 5 is inserted in the □ for the SW□GP-GPPA and A6MEM□GP-GPPA.

* A number 0, 1 or 2 is inserted in the □ for the SW□GP-GPPAU and A6MEM□GP-GPPAU .

(1) Symptom

(a) Target models 1

There is no particular problem regarding the year 2000.

(b) Target models 2

1) PLC diagnosis function

The following symptom will occur with the Japanese Version SW5GP-GPPA Version 10B and below, SW2GP-GPPAU Version 20C and below, A6MEM4GP-GPPA, A6MEM1GP-GPPAU GPP function software package.

(Symptom) The year "20*" is displayed as the year "***" for the date and time displayed at the upper right of the AnACPU and AnU(S)CPU PLC Diagnosis Screen.

Example : January 1, 2000 01/01/00 (DD/MM/YY)

(Measures) Read the year 00 as the year 2000.

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(2) Other precautions for specifications

1) PLC error history display

The date of error occurrence is handled with the "YY.MM.DD" format, and the year is displayed with the last two digits. Thus, the error that occurs in the PLC date year 00 (year 2000) will be displayed as follows. The date is displayed correctly after the error history occurring in the year 1999 and earlier.

Example : January 1, 2000 1. 1. 0 (DD.MM.YY)

The year, month and date are indicated with one digit from 0 to 9.

(3) Operation environment

1) Peripheral devices for Mitsubishi PLC

Refer to the Technical Bulletin "T50-0006" for details on the year 2000 problem for the A6GPP type intelligent GPP, A6PHP type plasma handy graphic programmer and A6HGP type handy graphic programmer.

2. GPPQ type GPP function software package

Target models: Japanese Version SW□NX-GPPQ, SW□IVD-GPPQ, SW0RX-GPPQ-MNT
English Version SW□IVD-GPPQ-E

* A number 0, 1 or 2 is inserted in the □.

(1) Symptoms

1) Clock setting function

The following symptom will occur with the Japanese Version SW2NX-GPPQ, SW2IVD-GPPQ Version 70H and below, SW0RX-GPPQ-MNT, and English Version SW2IVD-GPPQ-E Version 70H and below GPP function software version.

(Symptom) The date cannot be set to February 29, 2000 in the Clock Setting screen for the QnA Series CPU.

(Measures) Change the date data in the special registers SD210 and SD211 using the device test function.
Refer to the respective CPU User's Manual for details on the setting values.

2) File list function

The following symptom will occur with the Japanese Version SW2NX-GPPQ, SW2IVD-GPPQ Version 90K and below, SW0RX-GPPQ-MNT, and English Version SW2IVD-GPPQ-E Version 90K and below GPP function software package.

(Symptom) Files saved in the year 2000 with the personal computer date will be displayed as follows in the File List screen displayed when reading the QnA Series CPU files.

Example : January 1, 2000 00-01-01 → 100-01-01 (YYY-MM-DD)

(Measures) Read the year 100 as the year 2000.

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2) PC read - file selection function

The following symptom will occur with the Japanese Version SW3D5C-GPPLLT, SW3D5F-GPPLLT, SW3D5C-GPPW (-5/-10/-V), SW3D5F-GPPW (-5/-10/-V) Version 20C and below, and English Version SW3D5C-GPPLLT-E, SW3D5F-GPPLLT-E, SW3D5C-GPPW-E (-E5/-E10/-EV), SW3D5F-GPPW-E (-E5/-E10/-EV) Version 10B and below GPP function software package.

(Symptom) When the personal computer date changes to January 1, 2000, the year of the date of the file PC written into the QnA Series CPU will be displayed with three digits, and the date and time will not be displayed correctly.

Example : January 1, 2000 23 hours 59 minutes 00 seconds

00/01/01 23:59:00 → 100/01/0 023:59:00 (YYYY/MM/D hhh:mm:ss)

(Measures) Read the year 100 as the year 2000.

(2) Other precautions for specifications

1) PC error history display

The date of error occurrence is handled with the "YY.MM.DD" format, and the year is displayed with the last two digits. Thus, the error that occurs in the PLC date year 00 (year 2000) will be displayed as follows. The date is displayed correctly after the error history occurring in the year 1999 and earlier.

Example : January 1, 2000 00-01-01 (YY-MM-DD)

2) File date

With the GPPW, the file date is handled with the "YY/MM/DD" format, and the year is displayed with the last two digits. Thus, the file saved in the personal computer date year 2000 will be displayed as follows.

Example : January 1, 2000 00/01/01 (YY/MM/DD)

(3) Operation environment

1) Personal computer unit

Contact each personal computer maker for information regarding the year 2000 problem in the personal computer unit.

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4. LNKQ type Ladder Linking Software Package

Target models: Japanese Version SW0NX-LNKQ, SW0IVD-LNKQ
English Version SW0IVD-LNKQ-E

(1) Symptoms

1) File list function

The following symptom will occur with the Japanese Version SW0NX-LNKQ Version 40E and below, SW0IVD-LNKQ Version 20C and below, and English Version SW0IVD-LNKQ-E Version 20C and below sequence ladder generation and connection function software package.

(Symptom) When a file saved after the personal computer date year 2000 is displayed with the File List screen displayed during file reading, the year "20**" will be displayed as the year "1**".

Example : January 1, 2000 00-01-01 → 100-01-01 (YYY-MM-DD)

(Measures) Read the year 100 as the year 2000.

2) Print function

The following symptom will occur with the Japanese Version SW0NX-LNKQ Version 40E and below, SW0IVD-LNKQ Version 20C and below, and English Version SW0IVD-LNKQ-E Version 20C and below sequence ladder generation and connection function software package.

(Symptom) When printing the date with module printing or project printing, the date of a file saved after the personal computer date year 2000, the year "20**" will be displayed as "1**".

Example : January 1, 2000 00-01-01 → 100-01-01 (YYY-MM-DD)

(Measures) Read the year 100 as the year 2000.

(2) Operation environment

1) Personal computer unit

Contact each personal computer maker for information regarding the year 2000 problem in the personal computer unit.

5. LLT Ladder Logic Test Function Software Package

Target models: Japanese Version SW□D5C -GPPLLT, SW□D5F-GPPLLT
SW□D5C -LLT (-5/-10/-V), SW□D5F-LLT (-5/-10/-V)
English Version SW□D5C-GPPLLT-E, SW□D5F-GPPLLT-E
SW□D5C -LLT-E (-E5/-E10/-EV), SW□D5F -LLT-E (-E5/-E10/-EV)

* A number 0, 1, 2 or 3 is inserted in the □.

(1) Symptom

There is no particular problem regarding the year 2000.

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(2) Other precautions for specifications

1) Year data

The same simulation as when actually connected to the PLC is carried out, so the year data read out will be only the last two digits.

When using the year data in the sequence control (sequence program), the year data must be compensated depending on how the year data is used. However, the leap year date does not need to be compensated. Refer to Technical Bulletin "T04-0007" for examples on compensating the year data.

(3) Operation environment

1) Personal computer unit

Contact each personal computer maker for information regarding the year 2000 problem in the personal computer unit.

6. TSAP2 type SFC automatic generation function software package

Target model : SW0SRX-TSAP2

(1) Symptoms

1) File list function

The following symptom will occur with the SW0SRX-TSAP2 SFC automatic generation function software package.

(Symptom) When a file saved after the personal computer date year 2000 is displayed with the File List screen displayed during file reading, the year "20**" will be displayed as the year "1**".

Example : January 1, 2000 00-01-01 → 100-01-01 (YYY-MM-DD)

(Measures) Read the year 100 as the year 2000.

(2) Operation environment

1) Personal computer unit

Contact each personal computer maker for information regarding the year 2000 problem in the personal computer unit.

2) Peripheral devices for Mitsubishi PLC

Refer to Technical Bulletin "T50-0006" for details on the year 2000 problem for the A7HGP type handy graphic programmer, A7PHP type plasma handy graphic programmer, A6GPP type intelligent GPP, A6PHP type plasma handy graphic programmer and A6HGP type handy graphic programmer.

3) Mitsubishi FA controller

Refer to the Technical Bulletin "LMS-E-33" for details on the year 2000 problem for the FA controller MELSEC-LM Series.

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7. GPP Related Software Packages

Target models:

- ◆ Windows Version software package
 - SW□D5C-CNVW(-E) type Windows Version data conversion software package SW□D5C-CNVW (-E)

- ◆ DOS Version software packages
 - SW□IVD/NX-ROMA(-E) type ROM function software package SW□IVD/NX-ROMA (-E)
 - SW□IVD/NX-CADIF(-E) type CAD interface software package SW□IVD/NX-CADIF (-E)
 - SW□IVD/NX/IX-SAP2 type MELSAP-II software package SW□IVD/NX/IX SAP2
 - SW□IVD/NX-GPPATEL type software package SW□IVD/NX-GPPATEL
 - SW□IVD/NX-CNVQ type data conversion software package SW□IVD/NX-CNVQ
 - SW□IVD/NX-CADQ type CAD interface software package SW□IVD/NX-CADQ
 - SW□IVD/NX-MSPQ type macro library collection software package SW□IVD/NX-MSPQ
 - SW□IVD/NX-MSDQ type macro library collection software package SW□IVD/NX-MSDQ

- ◆ Software packages for A7PHP/A7HGP/LM
 - SW□SRXV-ROMA type ROM function software package SW□SRXV-ROMA
 - SW□SRX-CADIF type CAD interface software package SW□SRX-CADIF
 - SW□RX-CADIF type CAD interface software package SW□RX-CADIF
 - SW□SRX-FNUP type utility software package SW□SRX-FUNP
 - SW□SRX-DRWA type drawing creation function software package SW□SRX-DRWA
 - SW□RX-SAP2 type MELSAP-II software package SW□RX-SAP2
 - SW□SRX-SAP2 type MELSAP-II software package SW□SRX-SAP2
 - SW□SRXV-SAP2 type MELSAP-II software package SW□SRXV-SAP2
 - SW□SRX-UTL type basic utility package SW□SRX-UTL
 - SW□RX-MTM type MTM basic utility package SW□RX-MTM
 - SW□SRXV-FN2UP type utility package SW□SRXV-FN2UP
 - SW□SRX-SIMA type simulation software package SW□SRX-SIMA
 - SW□SRXV-GPPATEL type software package SW□SRXV-GPPATEL

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◆ Software package for A6GPP/A6PHP/A6HGP

SW□GHP-UTLPC-FN□ type utility package

SW□GHP-UTLP-FD1 type external fault diagnosis utility package

SW□C-TEL type remote program transmission package

SW□GHP-TEL type remote program transmission package

SW□-DRWA type drawing creation software package

SW□GP-DRWA type drawing creation function software package

SW□-SAPA type MELSAP software package

SW□GP-SAPA type MELSAP software package

SW□C-DADIF type CAD interface software package

SW□GHP-CADIF type CAD interface software package

SW□GP-SIMA type simulation software package

SW□-GPMA (EE) type program-less monitor package

SW□GP-GPMA type program-less-monitor package

SW□C-A7PRA type A7PR/A7NPR dedicated printing package

SW□GHP-A7PRA type A7PR/A7NPR dedicated printing package

SW□C-BAS type GPP-BASIC package

SW□GHP-BAS type GPP-BASIC package

SW□-GPPK type GPP function software package

SW□-HGPK type GPP function software package

SW□-GP-GPPK type GPP function software package

SW□-DRWK type drawing creation function software package

SW□GP-DRWK type drawing creation function software package

SW□GHP-UTLPC-FN□

SW□GHP-UTLP-FD1

SW□C-TEL

SW□GHP-TEL

SW□-DRWA

SW□GP-DRWA

SW□-SAPA

SW□GP-SAPA

SW□C-CADIF

SW□GHP-CADIF

SW□GP-SIMA

SW□-GPMA (EE)

SW□GP-GPMA

SW□C-A7PRA

SW□GHP-A7PRA

SW□C-BAS

SW□GHP-BAS

SW□-GPPK

SW□-HGPK

SW□GP-GPPK

SW□-DRWK

SW□GP-DRWK

* A number 0, 1, 2, or 3 ... is inserted in the □ of the target model.

(1) **Symptom**

There is no particular problem regarding the year 2000.

(2) **Operation environment**

1) Personal computer unit

Contact each personal computer maker for information regarding the year 2000 problem in the personal computer unit.

2) Peripheral devices for Mitsubishi PLC

Refer to Technical Bulletin "T50-0006" for details on the year 2000 problem for the A7HGP type handy graphic programmer, A7PHP type plasma handy graphic programmer, A6GPP type intelligent GPP, A6PHP type plasma handy graphic programmer and A6HGP type handy graphic programmer.

3) Mitsubishi FA controller

Refer to the Technical Bulletin "LMS-E-33" for details on the year 2000 problem for the FA controller MELSEC-LM Series.