

Mitsubishi Graphic Operation Terminal

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[Issue No.] T10-0005 Ver.B

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[Title] Measures Regarding Year 2000 Problem for GOT Series Graphic Operation Terminals

[Date of Issue] November '99

[Relevant Models] GOT-A900 Series, GOT800 Series, A77GOT, A64GOT, AD57G, A52GCPU

Thank you for your continued patronage of the Mitsubishi graphic operation terminal MELSEC-GOT Series.

The year 2000 problems include recognizing the year before 1999 and after 2000, and compensating the date in a leap year.

We have provided information on the year 2000 problem for the MELSEC-GOT Series graphic operation terminal in the Technical Bulletin issued in November 1998, and the revision Version A issued in July 1999. The details have been partially revised, as indicated in this revision Version B .

The changes are explanations regarding information on the GOT800 Series software packages versions requiring measures to be taken.

The symptoms and measures for each GOT compatible screen creation software package of the relevant models are described assuming that the personal computer (including OS) 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 manufacturer and take measures.

Whereas

[Details]

1. Common for GOT

The year data, such as the alarm history and report function, is displayed with the last two digits of the year. However, the data is displayed and printed in the time order of the collected data, so the display and printing order will not change even after the year 2000.

Example) The date is displayed in the order of "99" → "00" → "01" → "02".

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

2. GOT-A900 Series

Target models : A985GOT-□, A975GOT-□, A970GOT-□, A960GOT-□, A95□GOT-□, A9GT-RS2T

<Main body>

The GOT reads the clock information from the PLC and displays it.

When connected with a Mitsubishi PLC or Mitsubishi motion controller, the PLC or motion controller itself correctly shifts the year and compensates for the leap year, so there is no problem when continuously operating or restarting the GOT. (Measures are not required.)

However, when a different brand of PLC is connected, the clock data is read from the other brand of PLC and displayed, so contact the respective company for details on the clock data when connecting another brand of PLC.

The communication module A9GT-RS2T that can be used when a microcomputer is connected has a clock element. However, the year shift and leap year compensation are carried out correctly, so there will be no problem. Furthermore, there is no clock read function from the microcomputer, so there is no problem.

<Option>

The option modules other than the A9GT-RS2T do not have a clock function, and thus pose no problem.

<Screen creation software>

Measures are not required for the SW□D5C-GOTR-PACK.



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Target models : A870GOT-□, A85□GOT-□, A810GOT-□

<Main body>

(1) The GOT reads the clock information from the PLC and displays it.

When connected with a Mitsubishi PLC or Mitsubishi motion controller, the PLC or motion controller itself correctly shifts the year and compensates for the leap year, so there is no problem when continuously operating or restarting the GOT. (Measures are not required.)

However, when a different brand of PLC is connected, the clock data is read from the other brand of PLC and displayed, so contact the respective company for details on the clock data when connecting another brand of PLC. Furthermore, there is no clock read function from the microcomputer, so there is no problem.

(2) The GOT software package SW□NIW-GOT800PSET is configured of the following parts.

SW□NIW-A8GOTP (screen creation software)

SW□NIW-A8SYSP (unit OS)

SW□NIW-A8GMDP (special function module monitor screen data)

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

When using the basic function OS contained in SW2NIW-A8SYSP from Version D to Version H, the following symptom will occur and measures will be required.

Measures are not required for the SW0NIW-A8SYSP, SW1NIW-A8SYSP and SW2NIW-A8SYSP and SW3NIW-A8SYSP Versions A to C and Version J and above.

(Symptom) Regardless of the year 2000, any month having 31 days will be displayed as the 32nd day for one hour after the day is updated. When the 32nd day 0:59 is passed, the date and time will be correctly displayed as the 1st day 1:00 of the next month.

If the system is started within one hour after the date and time are updated, the display will be correct.

(Measures) Install the basic function OS of SW2NIW-A8SYSP Version J and above.

<Option>

The option modules do not have a clock function, and thus pose no problem.

<Screen creation software>

Measures are not required for the SW□NIW-A8GOTP.

<Other>

Measures are not required for the SW□NIW-A8GMDP.

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4. A77GOT

Target models : A77GOT-□

<Main body>

The GOT reads the clock information from the PLC and displays it.

When connected with a Mitsubishi PLC or Mitsubishi motion controller, the PLC or motion controller itself correctly shifts the year and compensates for the leap year, so there is no problem when continuously operating or restarting the GOT. (Measures are not required.)

However, when using the clock setting function and changing the date to February 29, 2000, the following symptom will occur, and measures will be required.

(Symptom) The date cannot be changed to February 29, 2000.

(Measures) Remedy with one of the following methods.

- 1) Set the date by inputting date data other than "February 29, 2000".
- 2) Change the PLC date data with the sequence program, etc.

<Option>

The option modules do not have a clock function, and thus pose no problem.

<Screen creation software>

When the SW0NX/SRX/IVD-AGOTP screen creation software is used after the year 2000, the following symptom fault will occur, and measures will be required.

Measures are not required when using the SW1 and above screen creation software SW□NX/SRX/IVD-AGOTP.

(Symptom) When reediting the monitor data using SW0NX/SRX/IVD-AGOTP after the year 2000, the comment data cannot be used.

This is because if the SW0NX/SRX/IVD-AGOTP compares the time when updating the data, and the date (last two digits of year are controlled) returns (the year data on the personal computer is return, ex., year 99 → year 00), it is determined that the update data is illegal. An operation to delete the data will take place. This symptom will occur if the conditions are established even when the personal computer date is changed as a test.

(Measures) To correct the monitor data to the year 2000 and following, read and correct the existing monitor data file with screen creation software package version SW1NX/SRX/IVD-AGOTP and above.

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5. A64GOT

Target models : A64GOT-□

<Main body>

The GOT reads the clock information from the PLC and displays it.

When connected with a Mitsubishi PLC or Mitsubishi motion controller, the PLC or motion controller itself correctly shifts the year and compensates for the leap year, so there is no problem when continuously operating or restarting the GOT. (Measures are not required.)

<Option>

The option modules do not have a clock function, and thus pose no problem.

<Screen creation software>

When the SW0NX/SRX/IVD-AGOTP screen creation software is used after the year 2000, the following symptom fault will occur, and measures will be required.

Measures are not required when using the SW1 and above screen creation software SW□NX/SRX/IVD-AGOTP.

(Symptom) When reediting the monitor data using SW0NX/SRX/IVD-AGOTP after the year 2000, the comment data cannot be used.

This is because if the SW0NX/SRX/IVD-AGOTP compares the time when updating the data, and the date (last two digits of year are controlled) returns (the year data on the personal computer is return, ex., year 99 → year 00), it is determined that the update data is illegal. An operation to delete the data will take place. This symptom will occur if the conditions are established even when the personal computer date is changed as a test.

(Measures) To correct the monitor data to the year 2000 and following, read and correct the existing monitor data file with screen creation software package version SW1NX/SRX/IVD-AGOTP and above.

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6. AD57G

Target models : AD57G, AD57G-S3

<Main body>

The AD57G reads the clock information from the PLC and displays it. When connected with a Mitsubishi PLC, the PLC itself correctly shifts the year and compensates for the leap year, so there is no problem when continuously operating or restarting the AD57G. (Measures are not required.) However, when using the clock setting function and changing the date to February 29, 2000, the following symptom will occur, and measures will be required.

(Symptom) The date cannot be changed to February 29, 2000.

(Measures) Remedy with one of the following methods.

- 1) Set the date by inputting date data other than "February 29, 2000".
- 2) Change the PLC date data with the sequence program, etc.

<Option>

The option modules do not have a clock function, and thus pose no problem.

<Screen creation software>

When the SW0NX/SRX/IVD-AGOTP screen creation software is used after the year 2000, the following symptom fault will occur, and measures will be required.

Measures are not required when using the screen creation software SW1NX/SRX/IVD-AGOTP.

(Symptom) When reediting the monitor data using SW0NX/SRX/IVD-AGOTP after the year 2000, the comment data cannot be used.

This is because if the SW0NX/SRX/IVD-AGOTP compares the time when updating the data, and the date (last two digits of year are controlled) returns (the year data on the personal computer is return, ex., year 99 → year 00), it is determined that the update data is illegal. An operation to delete the data will take place. This symptom will occur if the conditions are established even when the personal computer date is changed as a test.

(Measures) To correct the monitor data to the year 2000 and following, read and correct the existing monitor data file with screen creation software package version SW1NX/SRX/IVD-AGOTP. The SW1NX/SRX/IVD-AGOTP software package has already been updated to SW2NX/SRX/IVD-AGOTP, and production has been discontinued. However, if required, please contact your nearest sales office or dealer.

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7. A52GCPU

Target models : A52GCPU, A52GCPU-LT21B

<Main body>

The A52GCPU reads the clock information from the built-in PLC CPU and displays it.

The built-in PLC itself correctly shifts the year and compensates for the leap year, so there is no problem when continuously operating or restarting the A52GCPU. (Measures are not required.)

However, when using the clock setting function and changing the date to February 29, 2000, the following symptom will occur, and measures will be required.

(Symptom) The date cannot be changed to February 29, 2000.

(Measures) Remedy with one of the following methods.

- 1) Set the date by inputting date data other than "February 29, 2000".
- 2) Change the PLC date data with the sequence program, etc.

For details on the year 2000 problem with the A52GCPU built-in PLC CPU, refer to the Technical Bulletin regarding the years 2000 problem for the PLC CPU [T04-0007].

<Option>

The option modules do not have a clock function, and thus pose no problem.

<Screen creation software>

When the SW0NX/SRX/IVD-AGOTP screen creation software is used after the year 2000, the following symptom fault will occur, and measures will be required.

Measures are not required when using the SW1 and above screen creation software SW□NX/SRX/IVD-AGOTP.

(Symptom) When reediting the monitor data using SW0NX/SRX/IVD-AGOTP after the year 2000, the comment data cannot be used.

This is because if the SW0NX/SRX/IVD-AGOTP compares the time when updating the data, and the date (last two digits of year are controlled) returns (the year data on the personal computer is return, ex., year 99 → year 00), it is determined that the update data is illegal. An operation to delete the data will take place. This symptom will occur if the conditions are established even when the personal computer date is changed as a test.

(Measures) To correct the monitor data to the year 2000 and following, read and correct the existing monitor data file with screen creation software package version SW1NX/SRX/IVD-AGOTP and above.